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United States
Department of
Agriculture

Forest Service

Tongass
National Forest
R10-MB-310b

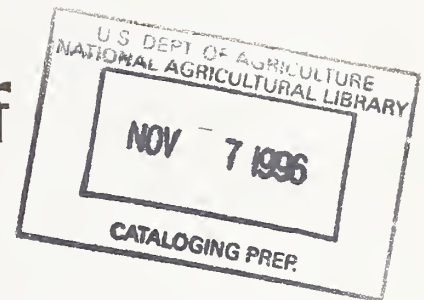
February 1996



Northwest Baranof Timber Sales

Final Environmental Impact Statement

Volume II



**United States
Department of
Agriculture**



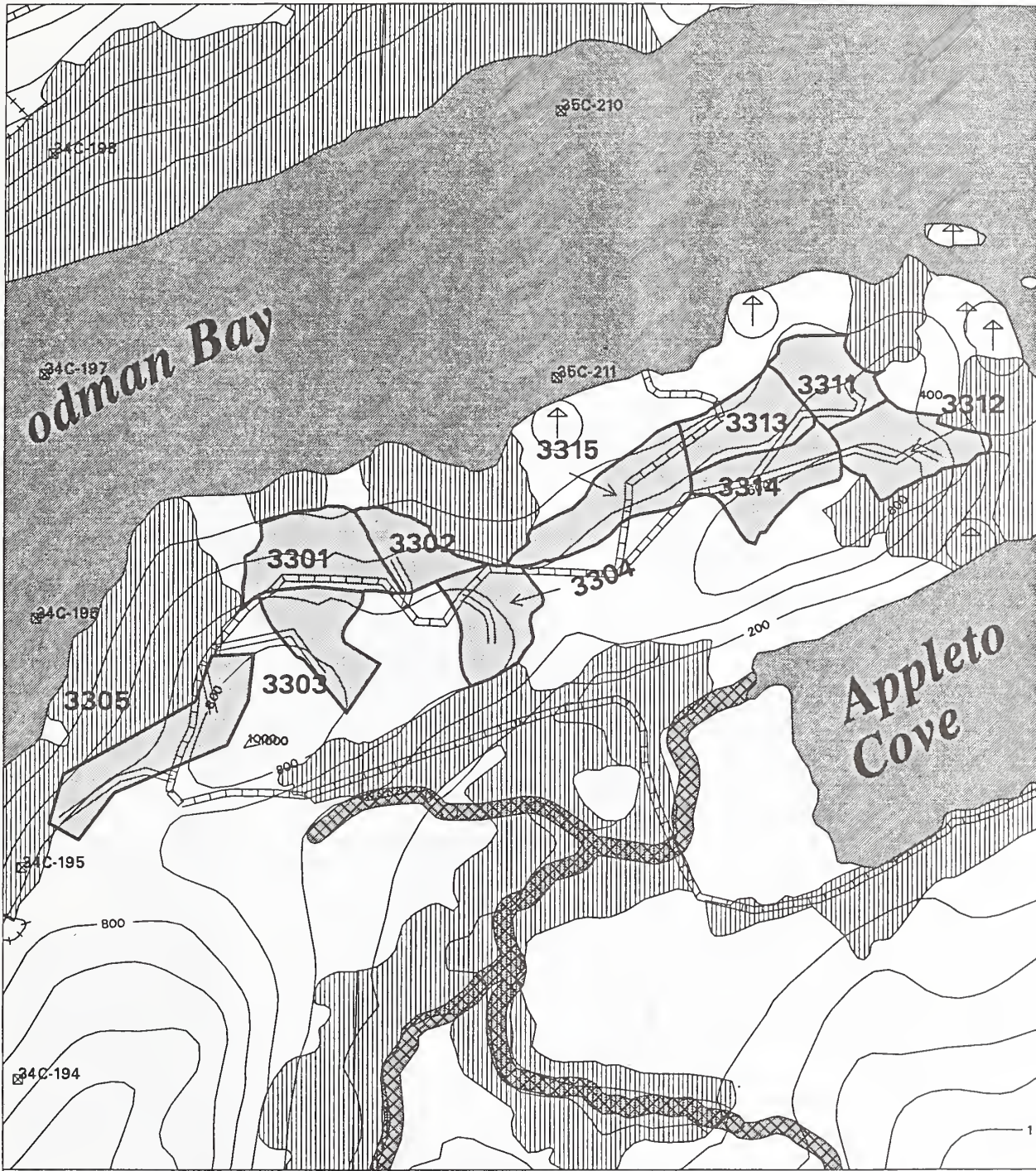
National Agricultural Library

Appendix N

Unit Cards

NORTHWEST BARANOF PROJECT HARVEST UNITS

Sale area : 1 RodnApple



200 FT CONTOUR INTERVAL

0 0.39 0.78 Miles

MAP SCALE 1:24800

HARVEST UNITS



SETTING BOUNDARY



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



CLASS III STREAM



PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



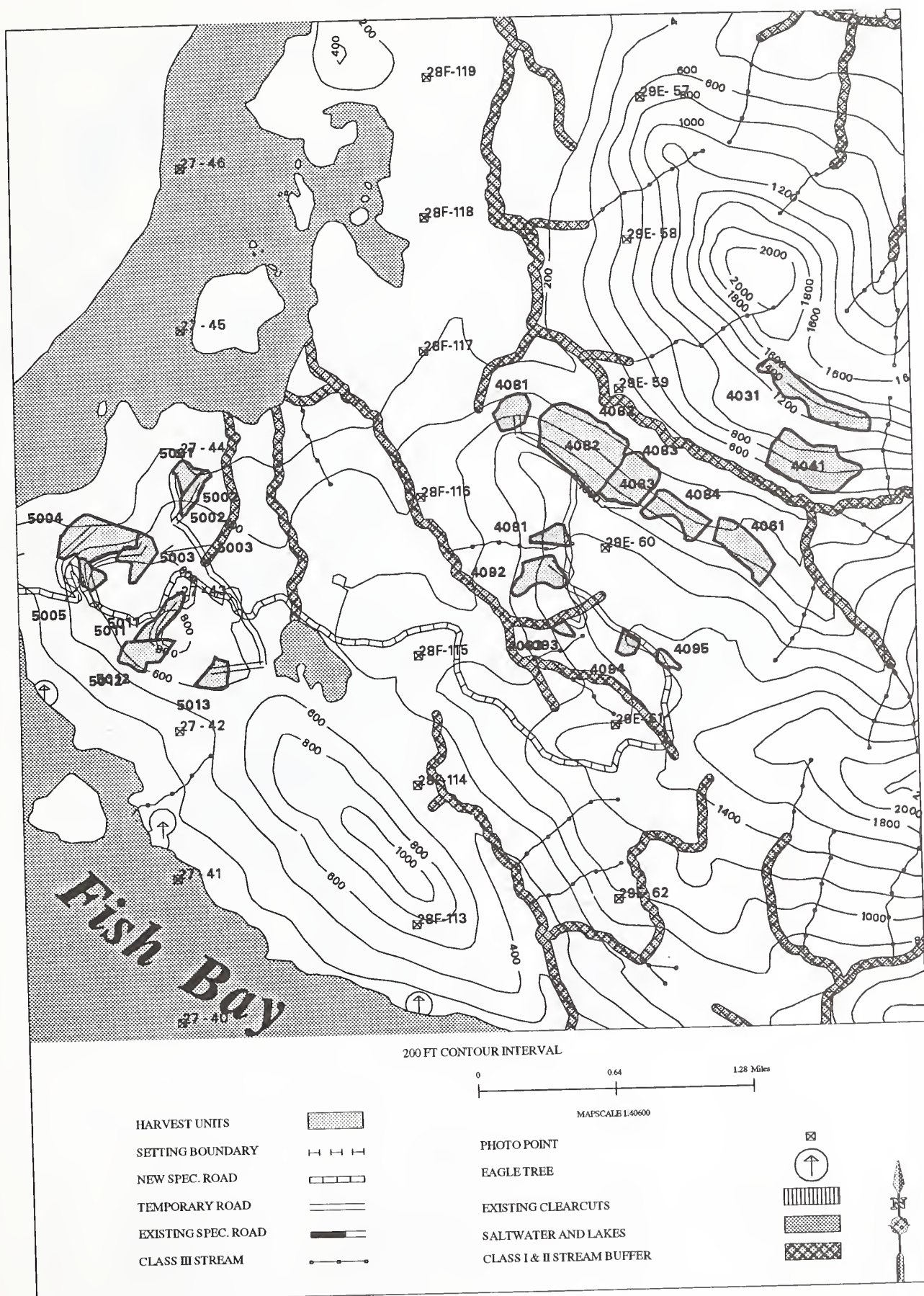
NORTHWEST BARANOF PROJECT HARVEST UNITS

Sale area : 2 Duffield/Rodman



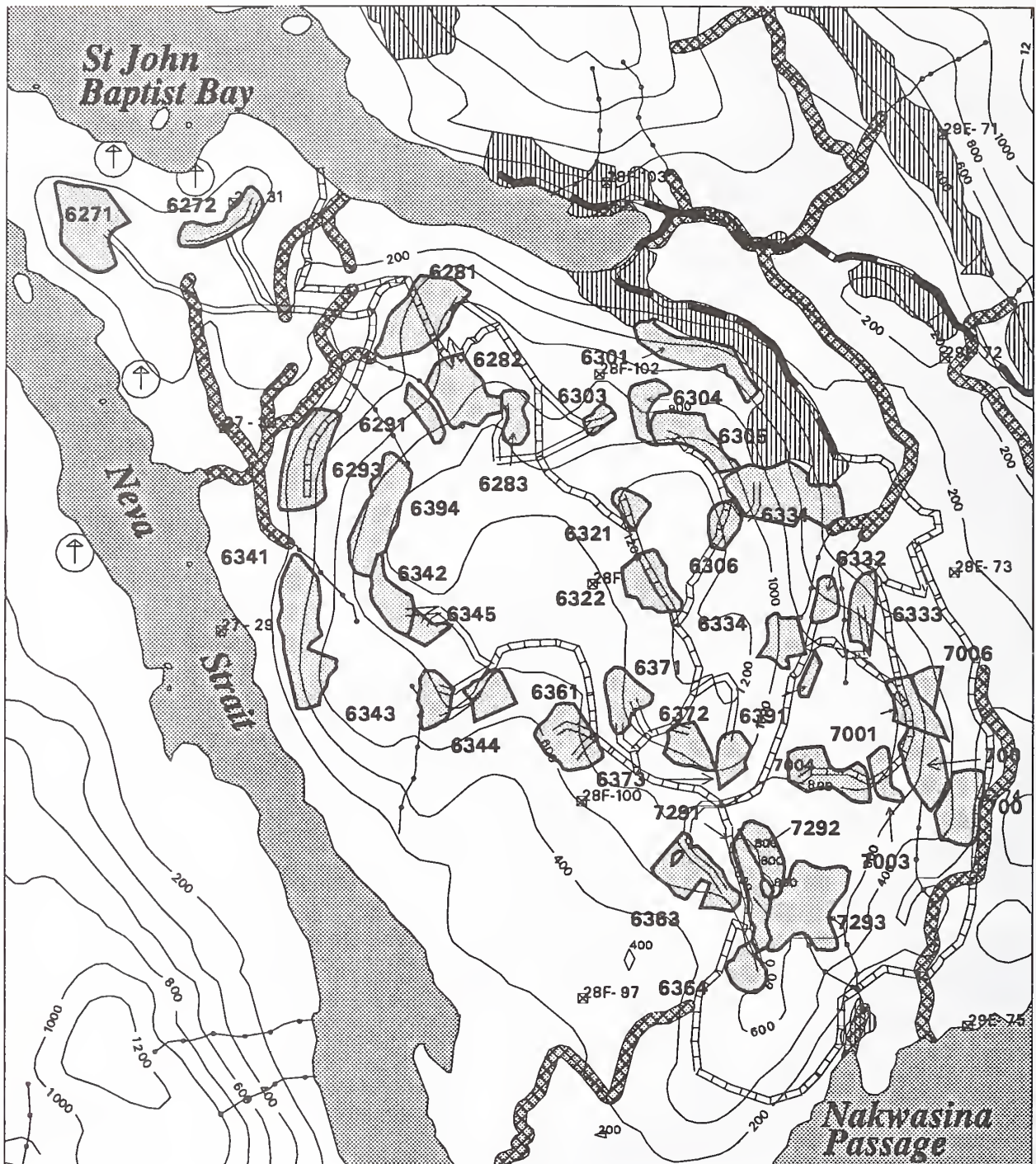
NORTHWEST BARANOF PROJECT HARVEST UNITS

Sale area : 3 Schultz Cove



NORTHWEST BARANOF PROJECT HARVEST UNITS

Sale area : 4 St John Baptist



200 FT CONTOUR INTERVAL

0 0.52 1.04 Miles

MAP SCALE 1:33000

HARVEST UNITS



SETTING BOUNDARY



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



CLASS III STREAM



PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES

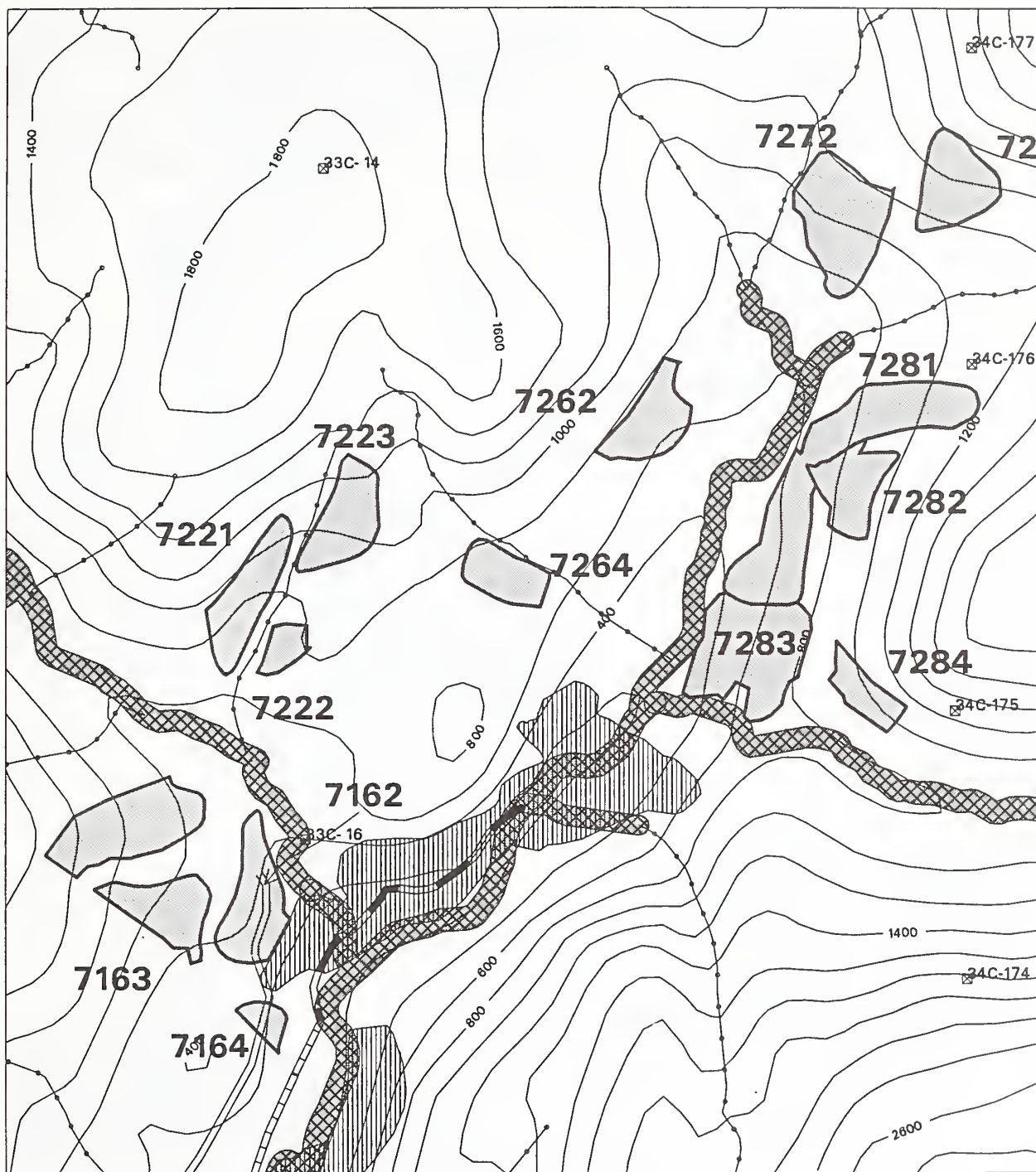


CLASS I & II STREAM BUFFER

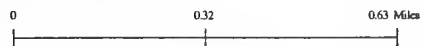


NORTHWEST BARANOF PROJECT HARVEST UNITS

Sale area : 5 Noxon Creek



200 FT CONTOUR INTERVAL



MAP SCALE 1:20,000

HARVEST UNITS



SETTING BOUNDARY



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



CLASS III STREAM



PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES

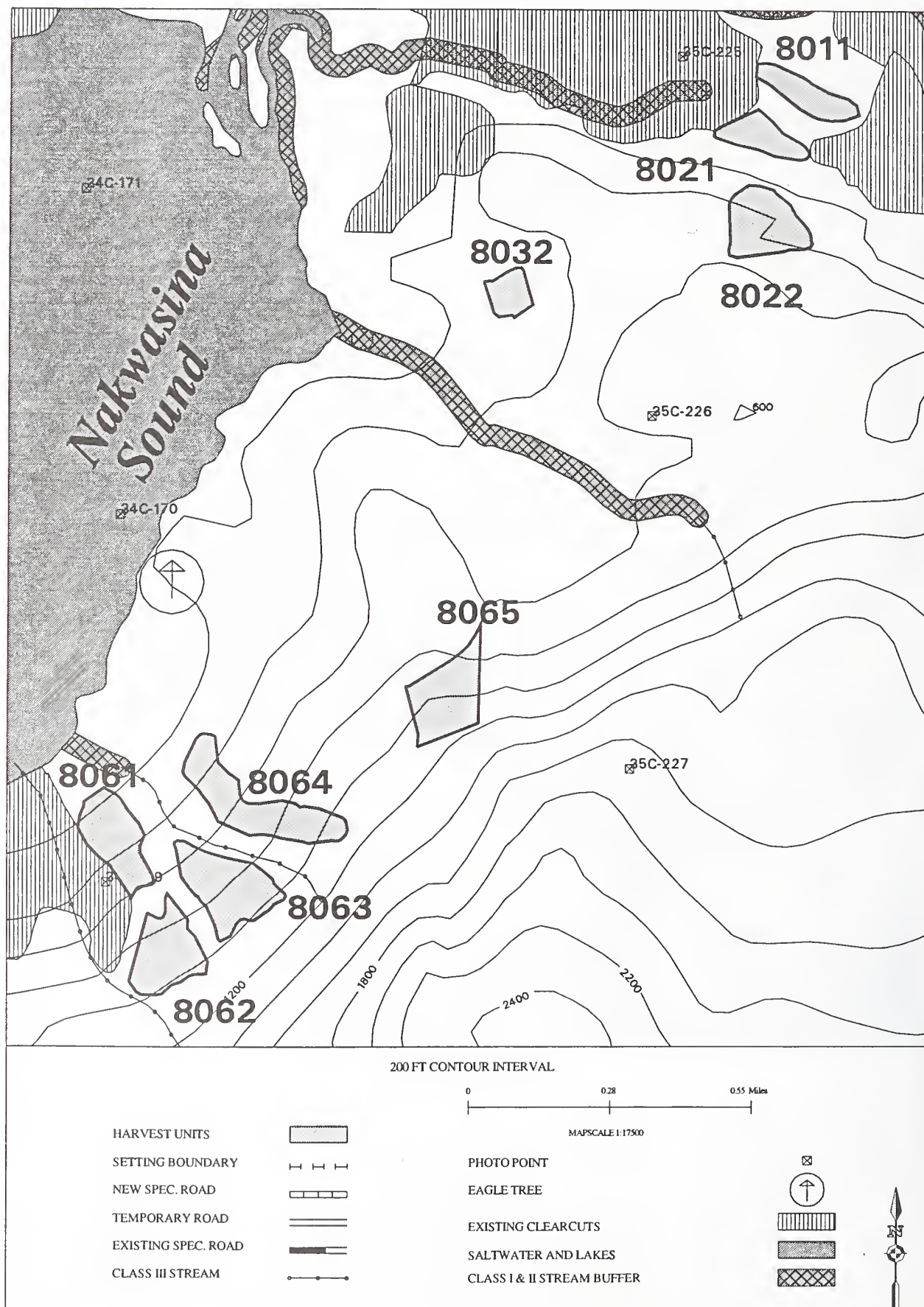


CLASS I & II STREAM BUFFER

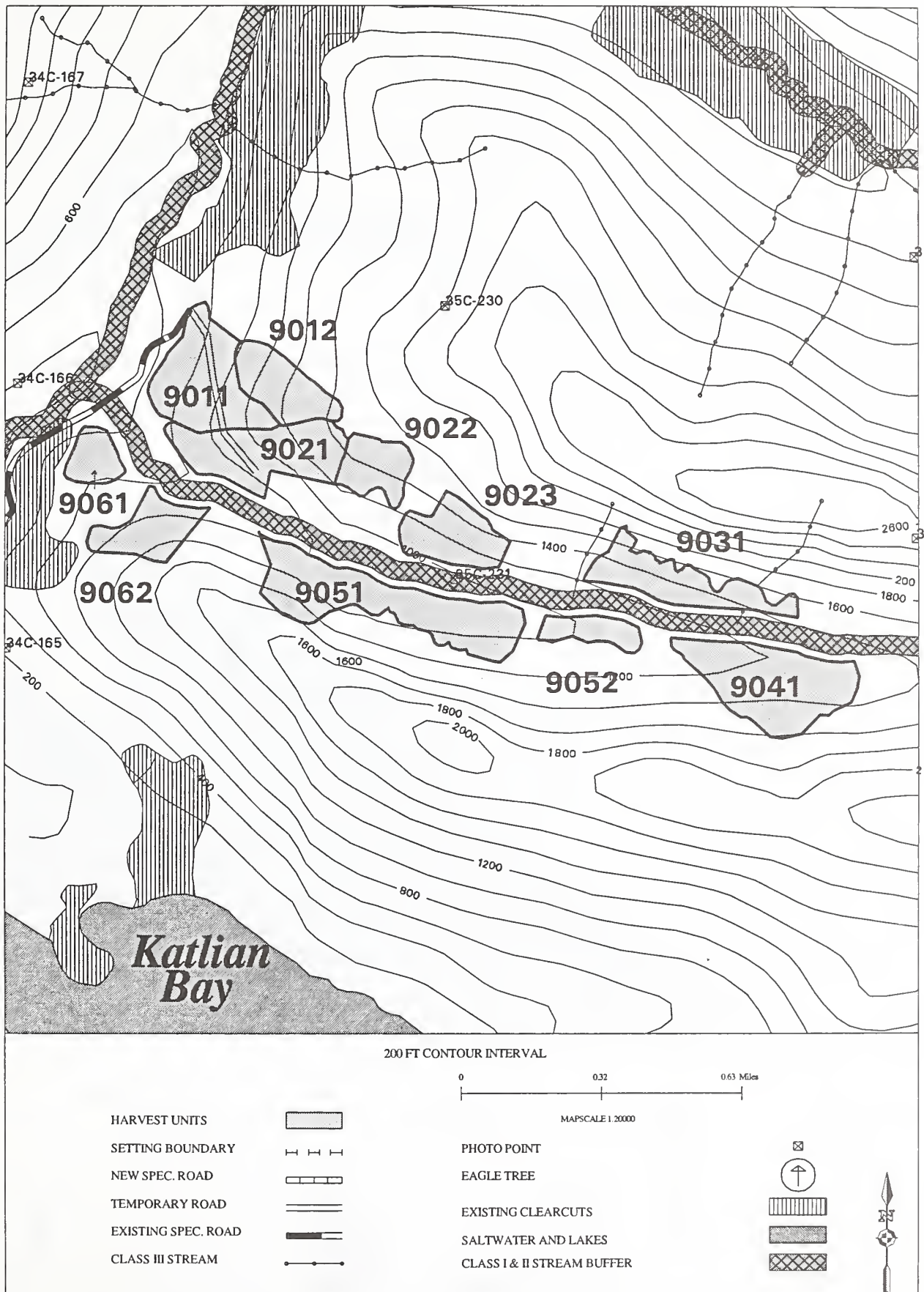


NORTHWEST BARANOF PROJECT HARVEST UNITS

Sale area : 6 Nakwasina Sound



NORTHWEST BARANOF PROJECT HARVEST UNITS
Sale area : 7 Lisa Creek



NORTHWEST BARANOF PROJECT HARVEST UNIT CARD

PLANNED HARVEST UNIT MAP

VCU: 291 UNIT NUMBER: 1061 QUAD(s): SITC5SE
 ACRES: 60 VOLUME: 1734 MBF HARVEST VOLUME: 347 MBF
 HARVEST PRESCRIPTION: Group Selection PERCENT VOLUME HARVESTED: 20

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



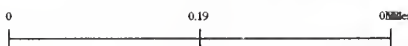
SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL



MAP SCALE 1:12000

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

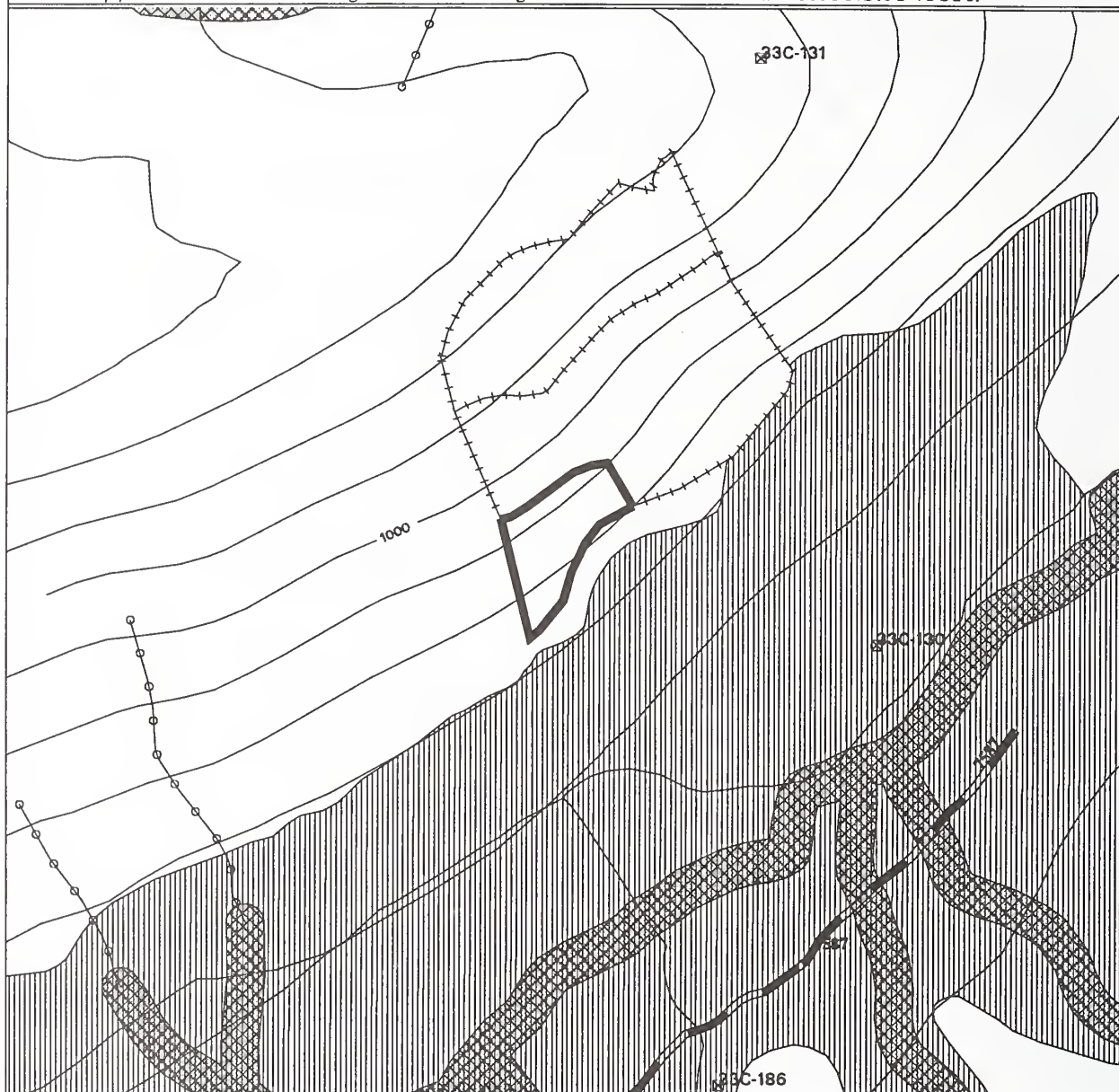
UNIT: 1061	VCU: 291
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is high canopy retention, Protect soils where possible.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Full suspension required for soils. Helicopter yarding required.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist REMARKS: Request soil scientist presence during layout to determine location of group selections. Unit contains oversteepened and unstable soils.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: An unmapped channel bisects NE half of unit. Mark with green/white flagging, and protect with 13.3, category C designation.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries for Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High habitat value; where possible maintain wildlife travel corridor across unit. Unit is within 1500 feet of known mountain goat habitat. If mountain goats are present within 1500 feet of unit, helicopter yarding should be adoided from May 15 through June 15 (kidding season).	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD

PLANNED HARVEST UNIT MAP

VCU: 291 UNIT NUMBER: 1065 QUAD(s): SITC5SE
 ACRES: 8 VOLUME: 239 MBF HARVEST VOLUME: 203 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL














SETTING BOUNDARY 
 UNIT BOUNDARY 
 ADJACENT UNIT 
 NEW SPEC. ROAD 
 TEMPORARY ROAD 
 EXISTING SPEC. ROAD 
 SHORELINE 
 CLASS III STREAM 

PHOTO POINT 
 EAGLE TREE 
 EXISTING CLEARCUTS 
 SALTWATER AND LAKES 
 CLASS I & II STREAM BUFFER 

0 0.19 0.38 Miles
 MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER



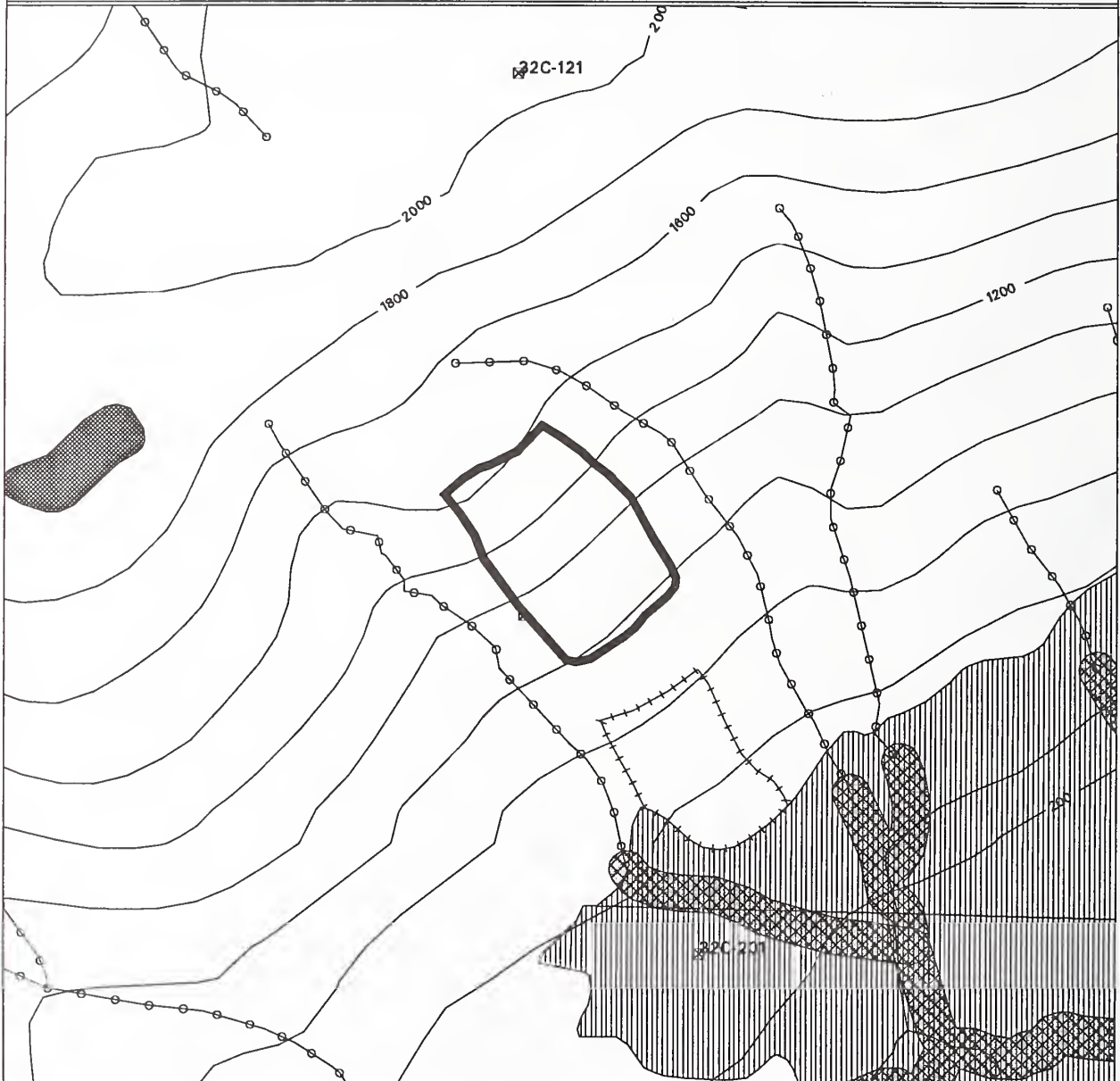
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 1065	VCU: 291
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, <u>Silvicultural diagnosis</u> for treatment is low canopy retention, Protect regeneration where possible.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required, no road access planned.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit contains oversteepened and unstable soils; ensure cliffy areas are avoided during layout; necessary full suspension will be provided by helicopter logging.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Two unmapped streams flow in v-notches from the lower unit boundary into the adjacent clearcut. The area is mapped as having a high soil mass movement hazard. Mark with orange/white flagging, and protect with 13.3, category B designation.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries for Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High habitat value. Recommend leaving snags where possible. Unit is within 1500 feet of known mountain goat habitat. If mountain goats are present within 1500 feet of unit, helicopter yarding should be avoided from May 15 through June 15 (kidding season).</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	









NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 291 UNIT NUMBER: 1071 QUAD(s): SITC5SE
 ACRES: 24 VOLUME: 697 MBF HARVEST VOLUME: 593 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85






Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY 
 UNIT BOUNDARY 
 ADJACENT UNIT 
 NEW SPEC. ROAD 
 TEMPORARY ROAD 
 EXISTING SPEC. ROAD 
 SHORELINE 
 CLASS III STREAM 

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT 
 EAGLE TREE 
 EXISTING CLEARCUTS 
 SALTWATER AND LAKES 
 CLASS I & II STREAM BUFFER 

LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 1071	VCU: 291
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry and mountain hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Protect soils where possible.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required, no road access planned.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None needed REMARKS: Wet soils are present; Full suspension provided by helicopter logging will protect soils	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Place SW and NE unit boundaries on stable sideslopes, above slope break, and maintain a vegetative filter strip between unit and the Class III, HC6 channels as per BMP 13.16. These channels should be protected with BMP 13.3, category B designation.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries for Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible. Unit is within 1500 feet of known mountain goat habitat. If mountain goats are present within 1500 feet of unit, helicopter yarding should be adoided from May 15 through June 15 (kidding season).	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD

PLANNED HARVEST UNIT MAP

VCU: 291 UNIT NUMBER: 1072 QUAD(s): SITC5SE
ACRES: 14 VOLUME: 358 MBF HARVEST VOLUME: 286 MBF

HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 80

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



PHOTO POINT

EAGLE TREE

EXISTING CLEARCUTS

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

H HELICOPTER



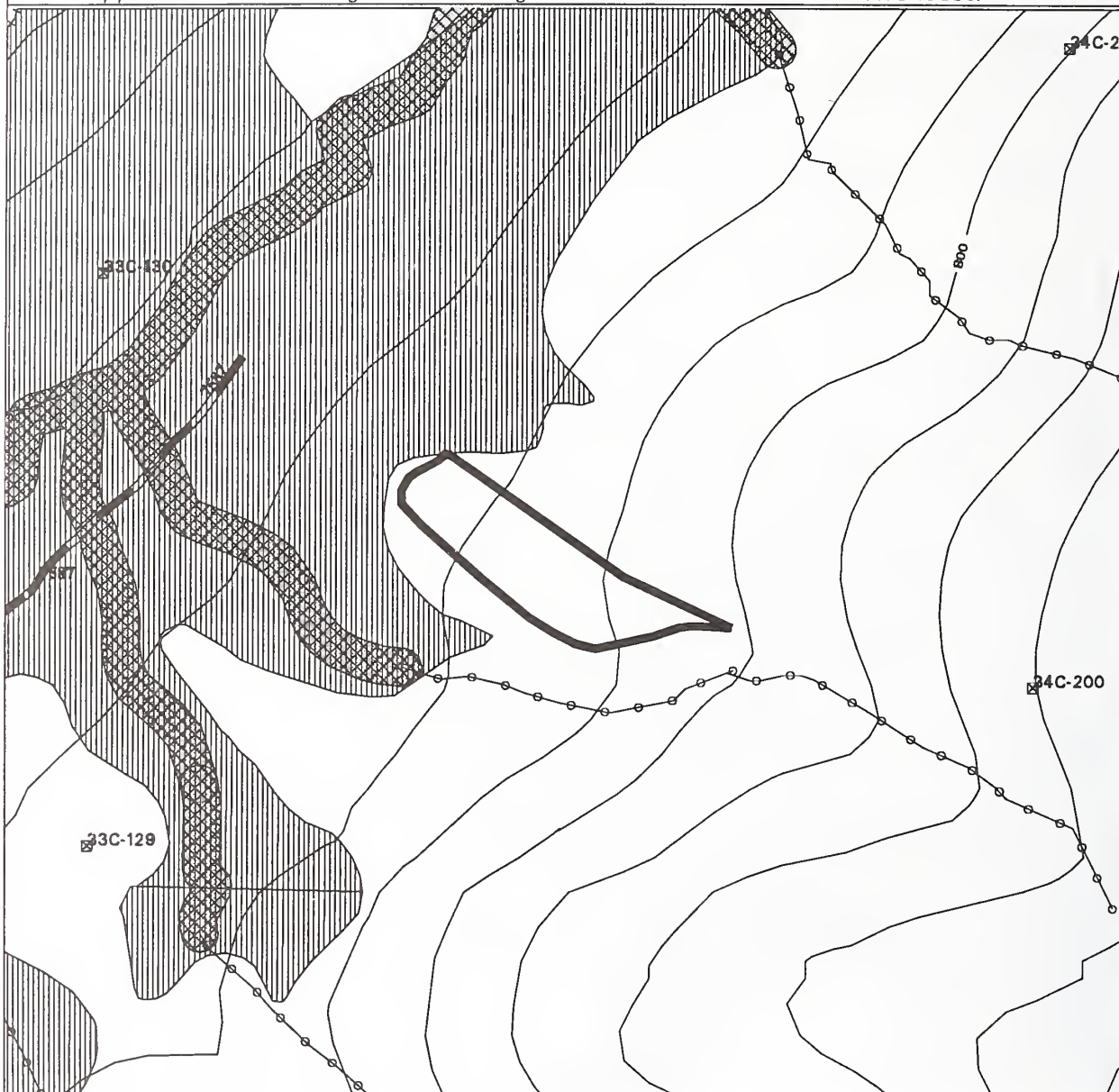
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 1072	VCU: 291
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is medium canopy retention, Protect regeneration where possible, Protect soils where possible.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required, no road access planned. Soils concerns, mark leave trees to protect V-notches and steep pitches.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit looks OK; oversteepened, unstable areas already deleted.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Place SW and NE unit boundaries on stable sideslopes, above slope break, and maintain a vegetative filter strip between unit and the Class III, HC6 channels as per BMP 13.16. These channels should be protected with BMP 13.3, category "B" designation.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries for Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 291 UNIT NUMBER: 1131 QUAD(s): SITC5SE
 ACRES: 18 VOLUME: 491 MBF HARVEST VOLUME: 417 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



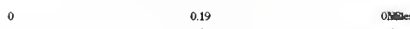
SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL



MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



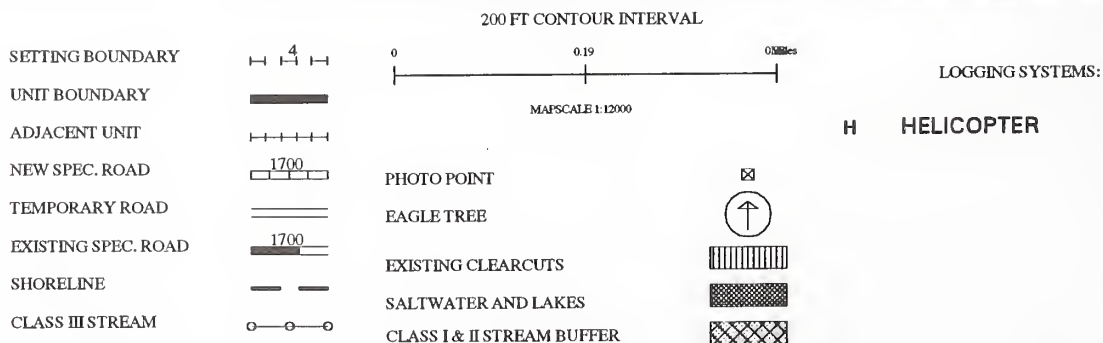
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 1131	VCU: 291
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is mixed conifer/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Protect regeneration where possible, Protect soils where possible.	
{ TIMBER } FIELD REVIEWED: No RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. Full suspension for soils.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Ensure that unit boundary is above slope break of large notches that form boundary; recommend at least partial suspension with full suspension over notches; adjust south boundary if unable to provide full suspension over heavily dissected slopes	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns as planned.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 1144 QUAD(s): SITC4SW
 ACRES: 11 VOLUME: 287 MBF HARVEST VOLUME: 229 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 80

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 1144		VCU: 291/292	
{ SILVICULTURE }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Dougan	
SPECIALISTS NEEDED DURING LAYOUT: None Needed			
REMARKS: Silvicultural diagnosis for treatment is low canopy retention, Plant association is Western hemlock/blueberry/skunk cabbage, Consider overstory removal.			
{ TIMBER }	FIELD REVIEWED: No	RECOMMENDED BY: L.Mork	
SPECIALISTS NEEDED DURING LAYOUT: None Needed			
REMARKS: Helicopter yarding recommended.			
{ LANDS }	FIELD REVIEWED: No	RECOMMENDED BY: J.Morrell	
SPECIALISTS NEEDED DURING LAYOUT: None Needed			
REMARKS: No Concerns			
{ SOILS }	FIELD REVIEWED: No	RECOMMENDED BY: B.Huecker	
SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist			
REMARKS: Unit appears to have stability problems; request soil scientist present during layout.			
{ FISHERIES }	FIELD REVIEWED: No	RECOMMENDED BY: B.Lorenz	
SPECIALISTS NEEDED DURING LAYOUT: None Needed			
REMARKS: No concerns.			
{ HYDROLOGY }	FIELD REVIEWED: No	RECOMMENDED BY: D.Kelliher	
SPECIALISTS NEEDED DURING LAYOUT: None Needed			
REMARKS: See Fisheries For Remarks			
{ WILDLIFE }	FIELD REVIEWED: No	RECOMMENDED BY: C.Hartmann	
SPECIALISTS NEEDED DURING LAYOUT: None Needed			
REMARKS: High habitat value. Recommend leaving snags where possible			
{ VISUALS }	FIELD REVIEWED: Yes	RECOMMENDED BY: E.Ouderkirk	
SPECIALISTS NEEDED DURING LAYOUT: None Needed			
REMARKS: Within visual quality objective			
{ RECREATION }	FIELD REVIEWED: No	RECOMMENDED BY: B.Flynn	
SPECIALISTS NEEDED DURING LAYOUT: None Needed			
REMARKS: No specific concerns			
{ HERITAGE }	FIELD REVIEWED: No	RECOMMENDED BY: R.Myron	
SPECIALISTS NEEDED DURING LAYOUT: None Needed			
REMARKS: Low probability area			

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 1145 QUAD(S): SITC4SW
 ACRES: 83 VOLUME: 2447 MBF HARVEST VOLUME: 2080 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



0 0.19 0.38 Miles

MAP SCALE 1:12000

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 1145	VCU: 292
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry/skunk cabbage, Silvicultural diagnosis for treatment is low canopy retention, Consider replanting, Consider seed tree cut for cedar regen.	
{ TIMBER } FIELD REVIEWED: No RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. Road access is uneconomical.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns	
{ SOILS } FIELD REVIEWED: No RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist REMARKS: This unit has not been field reviewed; recommend presence of a soil scientist during layout	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Locate lower unit boundary above deeply incised v-notches along NE side of proposed unit (BMP 13.16).	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. High habitat value. Recommend leaving snags where possible. Unit is within 1/4 mile of eagle nest tree 12334004. Helicopter yarding should be avoided from March 1 through May 31. If nest is active, helicopter yarding should be avoided from May 31 through August 31 per Interagency Agreement with the USF&WS.	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit as planned does not meet VQO, as seen from Alaska Marine Highway System due to size, aspect's harvest prescription.	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: Yes RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Archeological survey completed for unit 1145 No sites identified.	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD
PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 1146 QUAD(s): SITC4SW
ACRES: 15 VOLUME: 420 MBF HARVEST VOLUME: 399 MBF

HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY

UNIT BOUNDARY

ADJACENT UNIT

NEW SPEC. ROAD

TEMPORARY ROAD

EXISTING SPEC. ROAD

SHORELINE

CLASS III STREAM

PHOTO POINT

EAGLE TREE

EXISTING CLEARCUTS

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 1146	VCU: 292
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: The plant association is Western hemlock/blueberry/shield-fern and mountain hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves.	
{ TIMBER } FIELD REVIEWED: No RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required, road access is uneconomical.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns. Temporary spur road drainage structures will be removed and road bed seeded after harvest	
{ SOILS } FIELD REVIEWED: No RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist REMARKS: Unit appears to contain old slides but it hasn't been field reviewed; request presence of a soil scientist during layout.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High habitat value. Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit as planned does not meet VQO. Feather down slope boundary to assist in replicating natural openings, place reserves toward lower edge to screen harvested ground.	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

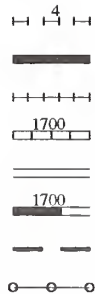
VCU: 292 UNIT NUMBER: 1147 QUAD(S): SITC4SW
 ACRES: 17 VOLUME: 493 MBF HARVEST VOLUME: 99 MBF
 HARVEST PRESCRIPTION: Group Selection PERCENT VOLUME HARVESTED: 20

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM



0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

H HELICOPTER



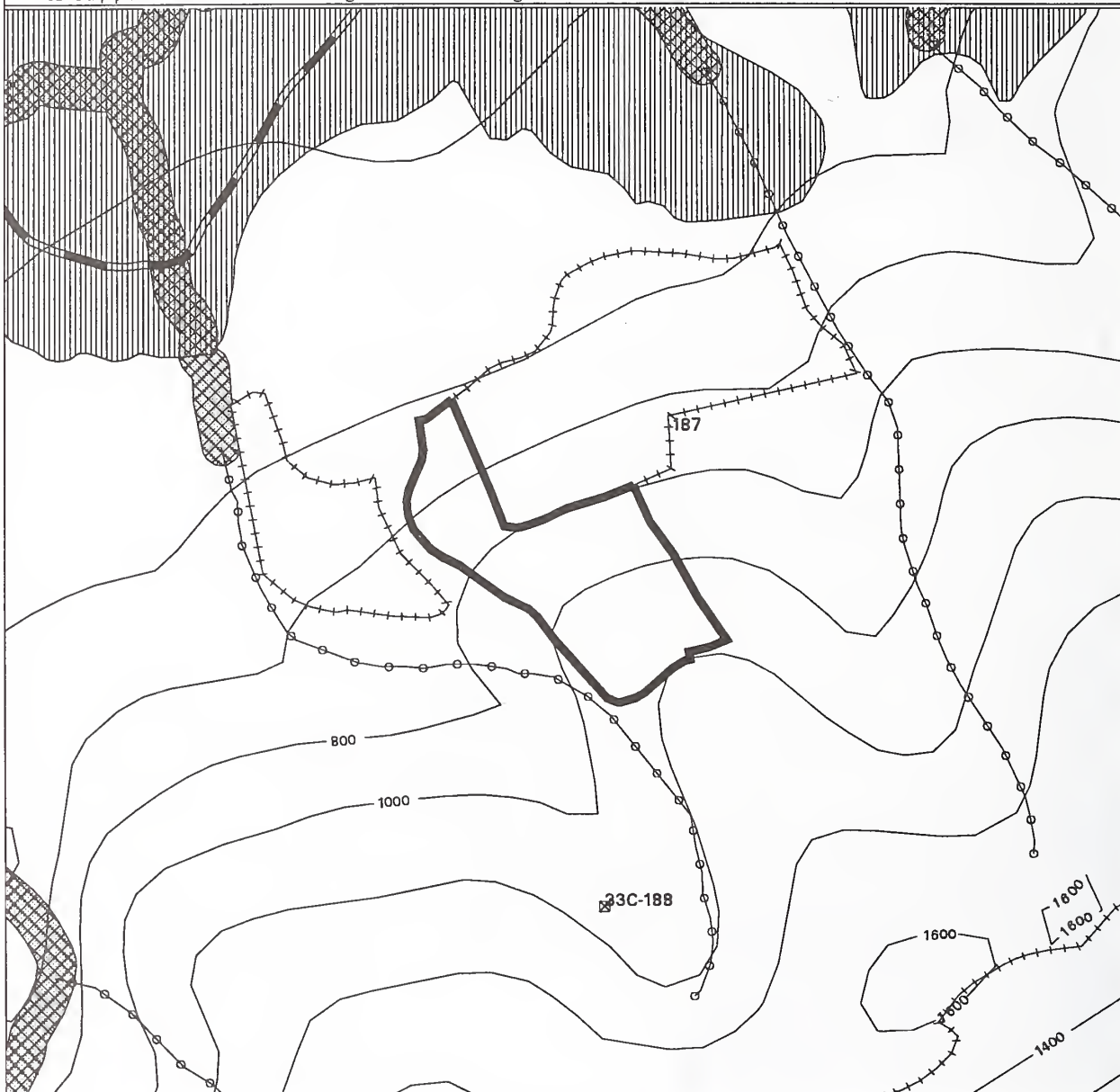
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 1147	VCU: 292
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist REMARKS: Plant association is Sitka spruce/blueberry, Silvicultural diagnosis for treatment is high canopy retention, Consider group selection.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required, road access is uneconomical.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns. Temporary spur road drainage structures will be removed and road bed seeded after harvest</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist REMARKS: Unit is dissected and contains slides/slumps and some wet soils; request soil scientist be present during layout to assist in determining where group selections will be made.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High habitat value. Where possible maintain wildlife travel corridor across unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 291 UNIT NUMBER: 1171 QUAD(S): SITB5NE
 ACRES: 30 VOLUME: 857 MBF HARVEST VOLUME: 729 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



0 0.19 0.38 Miles

MAP SCALE 1:12000

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 1171

VCU: 291

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Western hemlock-yellow cedar/blueberry,
 Silvicultural diagnosis for treatment is low canopy retention, Protect soils
 if possible, Consider seed tree cut for cedar regen.

{ TIMBER } FIELD REVIEWED: No RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Helicopter yarding recommended.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Unit dissected; recommend directional falling away from notches; full
 suspension over notches will be provided by helicopter logging.

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist to verify extent of fish
 habitat on unmapped channel at base of unit.
 REMARKS: Fish habitat may reach the lower unit boundary on a stream that
 flows out of the NW corner. Mark any fish stream with blue/white flagging,
 and protect with BMP's 12.6, and 13.3, category "A". Mark the Class III
 streams along the SW boundary with orange/white flagging and protect with BMP
 13.3, category "B" designation. The mapped Class III, HC6 channel that flows
 adjacent to the upper third of this unit has a sideslope mass wasting hazard,
 and requires a stream buffer as per BMP's 12.6a and 13.16. Within 100' of the
 stream, all non-merchantable trees should be left standing. Selected
 merchantable trees may be felled and removed if the immediate sideslope is
 stable, and there is a vegetative filter strip between the tree and the
 stream.

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend leaving snags where possible. Unit is within 1500 feet of
 known mountain goat habitat. If mountain goats are present within 1500 feet
 of unit, helicopter yarding should be avoided from May 15 through June 15
 (kidding season).

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 291 UNIT NUMBER: 1172 QUAD(s): SITB5NE
 ACRES: 48 VOLUME: 1394 MBF HARVEST VOLUME: 1185 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

H HELICOPTER



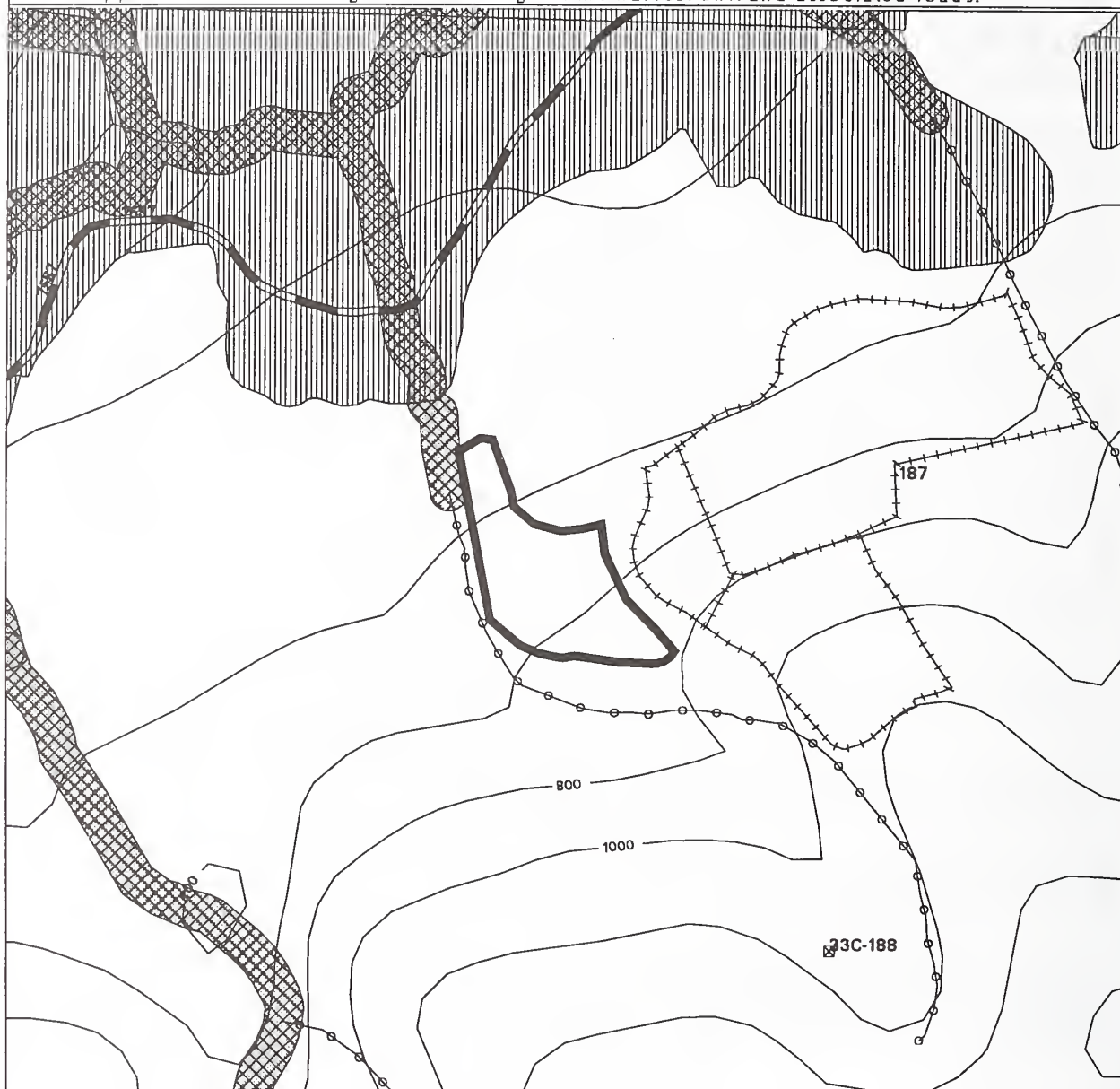
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 1172	VCU: 291
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Plant association is mixed conifer/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Consider seed tree cut for cedar regen.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required, no road access planned.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit is dissected; recommend directional falling away from notches; full suspension over notches will be provided by helicopter logging.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist to verify extent of fish habitat on unmapped channels along boundary at the base of the unit. REMARKS: Fish habitat may reach the lower unit boundary, particularly on an alluvial fan channel that flows from the NW corner. Mark any fish streams with blue/white flagging and protect per BMP 12.6 and 13.3, category "A". Mark the Class III, HC6 channel along the NE boundary with orange/white flagging and protect with BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High habitat value. Recommend leaving snags where possible</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 291 UNIT NUMBER: 1173 QUAD(s): SITB5NE
 ACRES: 17 VOLUME: 438 MBF HARVEST VOLUME: 372 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 1173	VCU: 291
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is mixed conifer/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Protect soils if possible, Consider seed tree cut for cedar regen.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required, no road access planned.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit contains v-notches; recommend directional falling away from notches; full suspension will be provided over notches by helicopter logging.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist to flag Class I and II fish habitat on NW end. REMARKS: The streams along NW and N boundaries may have fish habitat adjacent to the unit. Mark fish habitat with blue/white flagging, and protect per BMP's 12.6 and 13.3, category "A". Place west and south boundaries at or above the slope break of the Class III, HC6 channel to avoid soils mapped for extreme mass movement hazard. Protect same channel with BMP 13.3, category "B" designation. Mark the unmapped channel along the NE boundary with orange/white flagging (wherever not marked as fish habitat), and protect with BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 291 UNIT NUMBER: 1211 QUAD(s): SITB5NE
 ACRES: 6 VOLUME: 170 MBF HARVEST VOLUME: 144 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



0 0.19 0.38 Miles

MAP SCALE 1:12000

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 1211	VCU: 291
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Consider moving lower boundary uphill in areas of sparse/low volume.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required, no road access planned.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Part of unit adjacent to stream has been deleted; remainder of unit contains an old slide and contains blowdown; full suspension will be provided by helicopter logging.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist REMARKS: Unit is in 5220B SMU, bordered by unmapped fish streams on SE and SW sides. Nearly half of unit (5.9 acres) is in mapped riparian area, and is likely to contain additional unmapped fish habitat. Class I and II fish streams should be marked with blue/white flagging, and protected with a minimum 100' buffer as per BMP12.6 and BMP 13.3, category "B" stream course.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High habitat value. Recommend leaving snags where possible. Unit is within 1500 feet of known mountain goat habitat. If mountain goats are present within 1500 feet of unit, helicopter yarding should be avoided from May 15 through June 15 (kidding season).</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 291 UNIT NUMBER: 1221 QUAD(s): SITB5NE
 ACRES: 32 VOLUME: 936 MBF HARVEST VOLUME: 795 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY —+—+—+—+—
 UNIT BOUNDARY —————
 ADJACENT UNIT —+—+—+—+—
 NEW SPEC. ROAD —+—+—+—+—
 TEMPORARY ROAD —————
 EXISTING SPEC. ROAD —+—+—+—+—
 SHORELINE —————
 CLASS III STREAM —○—○—○—

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT ⊠
 EAGLE TREE ↑
 EXISTING CLEARCUTS [|||||]
 SALTWATER AND LAKES [|||||]
 CLASS I & II STREAM BUFFER [|||||]

LOGGING SYSTEMS:

H HELICOPTER



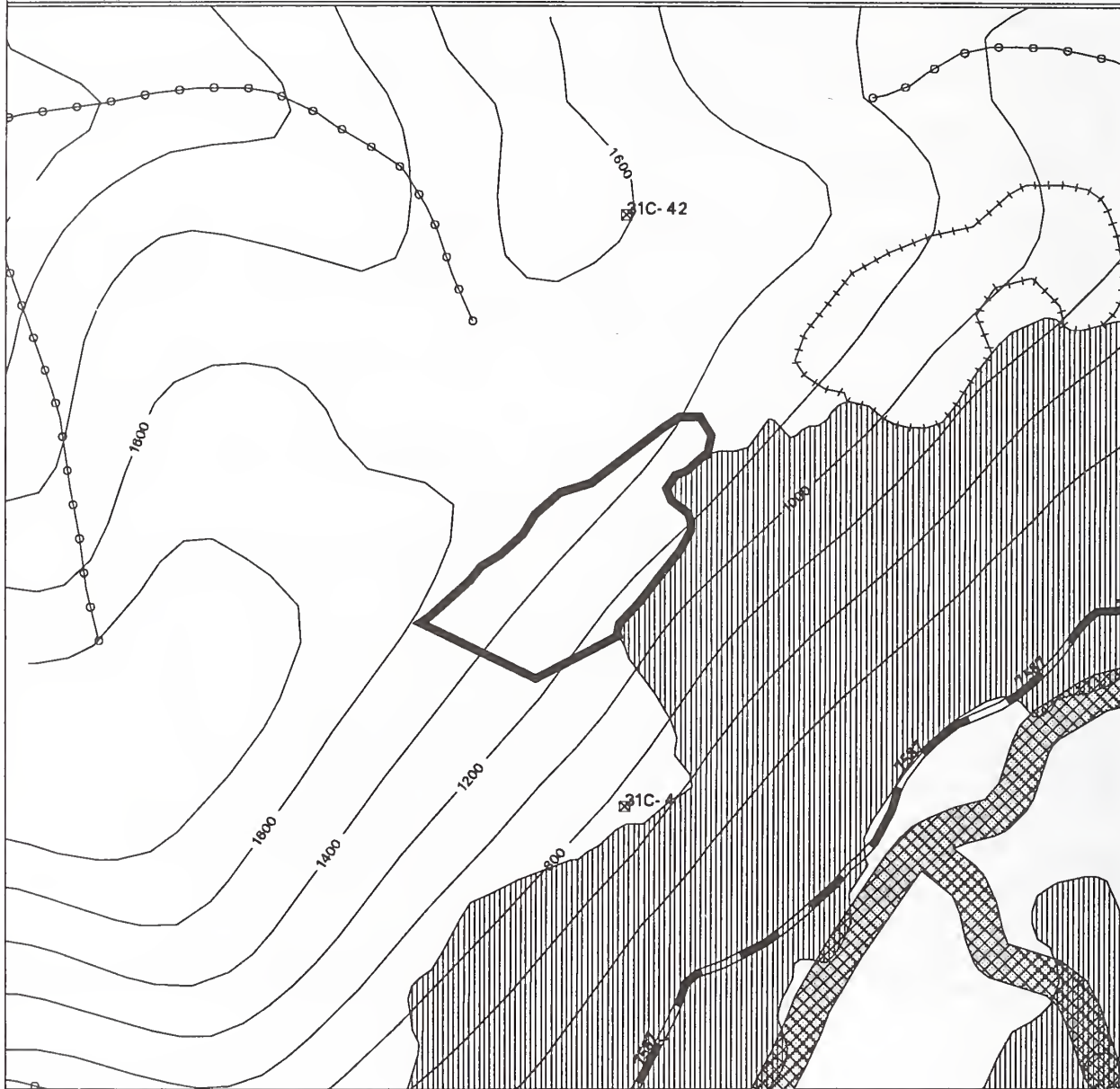
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 1221	VCU: 291
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is western hemlock/blueberry and western hemlock-Alaska cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Protect regeneration where possible.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required, soils concerns.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit is dissected by notches and is somewhat wet; recommend directional falling away from notches; full suspension over notches and wet soils will be provided by helicopter logging.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No fisheries concerns.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible. Unit is within 1500 feet of known mountain goat habitat. If mountain goats are present within 1500 feet of unit, helicopter yarding should be avoided from May 15 through June 15 (kidding season).</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 291 UNIT NUMBER: 1231 QUAD(s): SITB5NE
 ACRES: 26 VOLUME: 757 MBF HARVEST VOLUME: 530 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 70

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL

0 0.19 0.38 Miles

MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 1231

VCU: 291

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is western hemlock/blueberry and mountain hemlock/blueberry, Silvicultural diagnosis for treatment is high canopy retention, Visual considerations should dictate treatment, Topography broken, rocky.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Helicopter yarding required, soils concerns.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Unit contains oversteepened and some unstable slopes; cliffs are present near the backline and blowdown is common; during layout, recommend ensuring that backline is below cliffs; directionally fall trees away from notches, especially the large one near center of unit; remove any debris introduced into notches; full suspension to protect soils will be provided by helicopter logging.

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Fisheries concerns

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend leaving snags where possible. Unit is within 1500 feet of known mountain goat habitat. If mountain goats are present within 1500 feet of unit, helicopter yarding should be avoided from May 15 through June 15 (kidding season).

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

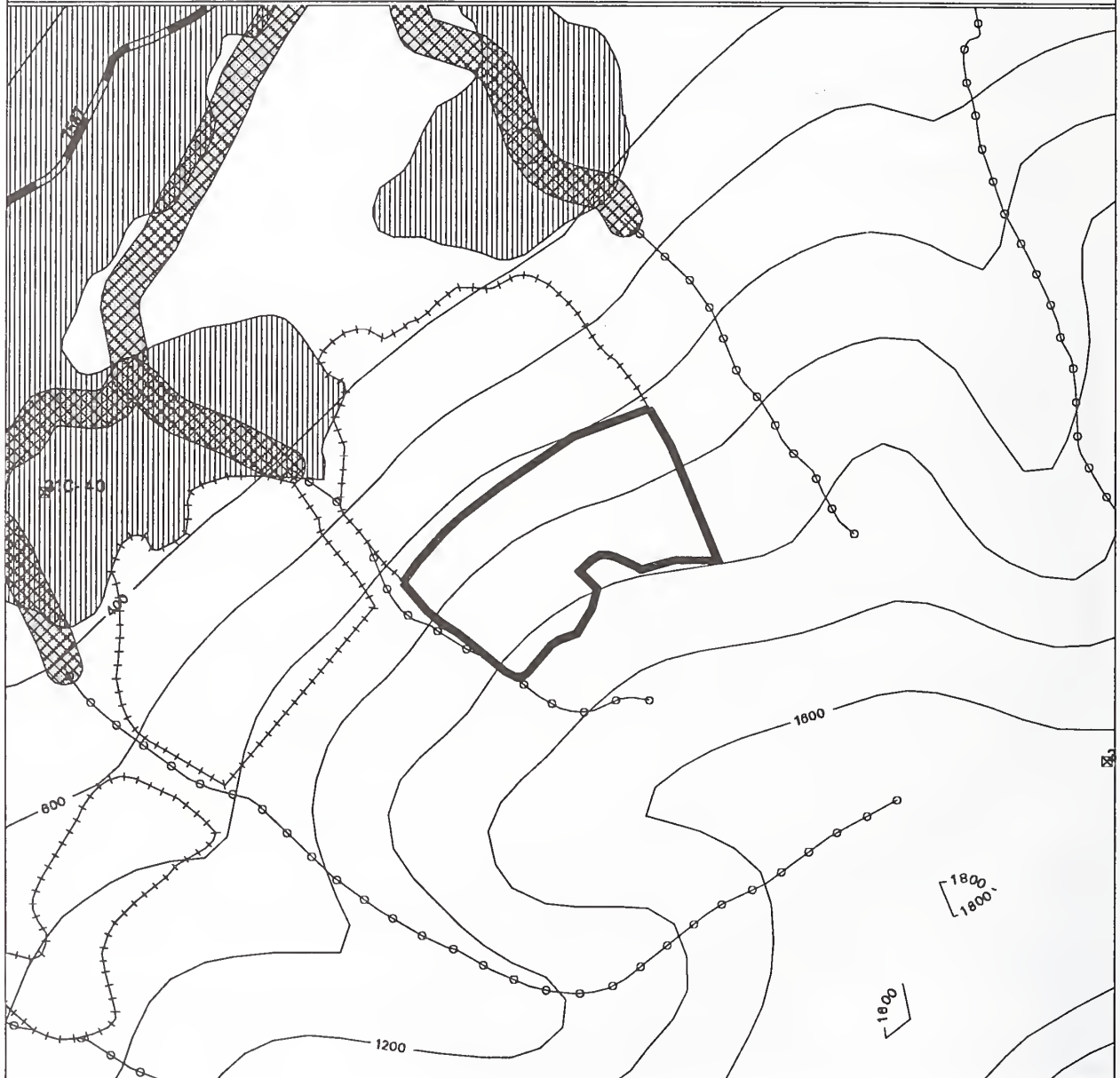
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 291 UNIT NUMBER: 1251 QUAD(s): SITB5NE
 ACRES: 33 VOLUME: 979 MBF HARVEST VOLUME: 930 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



0 0.19 0.38 Miles

MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 1251

VCU: 291

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Soils are wet in places. Regeneration will be slow in wetter swales.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Partial suspension required for soils protection. Helicopter yarding required for soils concerns.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Ensure full suspension or helicopter to protect v-notches, wet areas, and shallow soils; remove any debris introduced into notches

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Place south unit boundary at or above slope break of Class III, HC6 channel. The unmapped channel on the north boundary should be marked with orange/white flagging and protected as per BMP 13.3, category "B."

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend leaving snags where possible and leaving reserve trees near edge of unit. Unit is within 1500 feet of known mountain goat habitat. If mountain goats are present within 1500 feet of unit, helicopter yarding should be avoided from May 15 through June 15 (kidding season).

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 291 UNIT NUMBER: 1252 QUAD(s): SITB5NE
 ACRES: 43 VOLUME: 1282 MBF HARVEST VOLUME: 1090 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



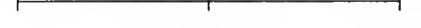
SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL



MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



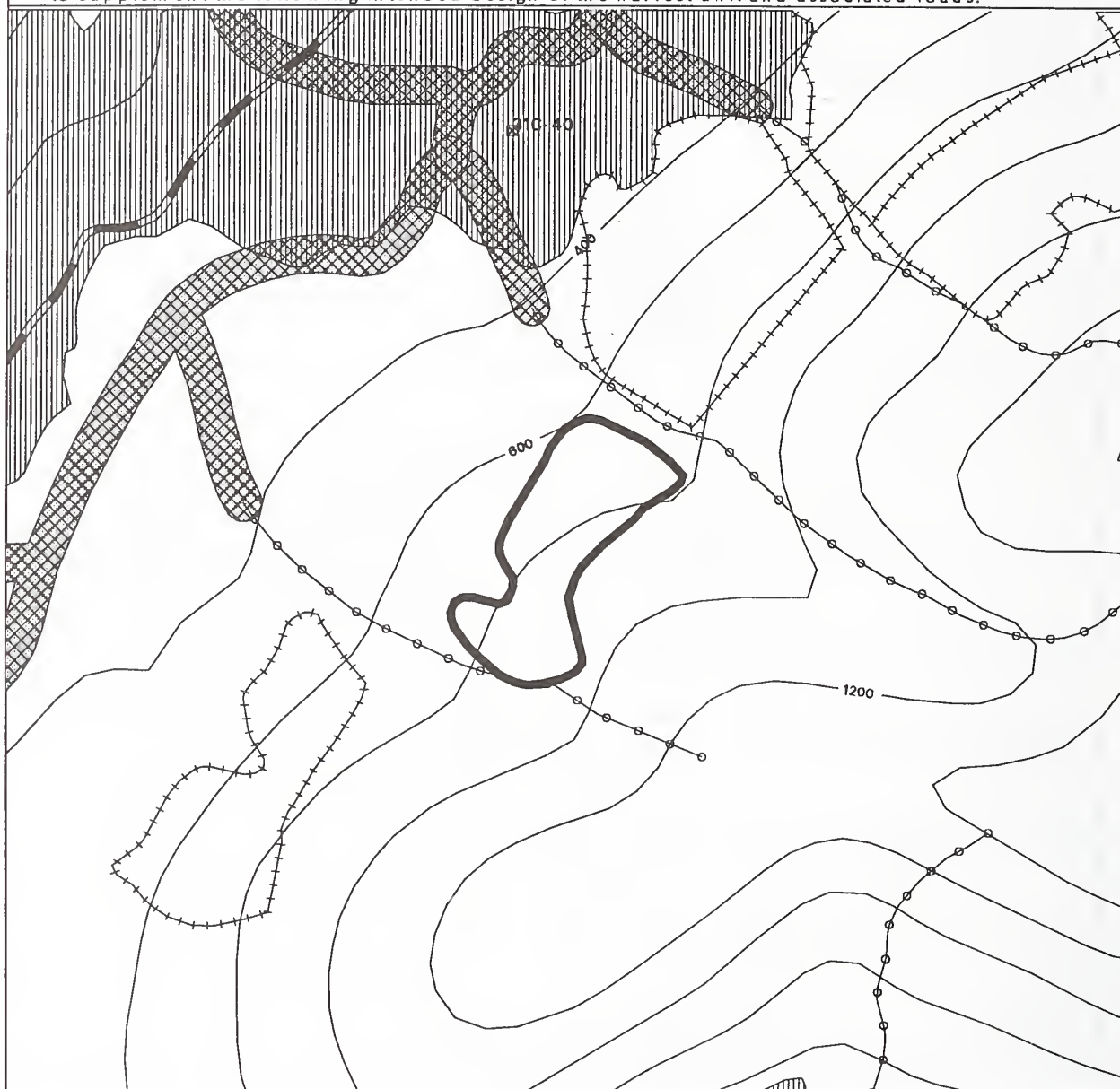
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 1252	VCU: 291
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is mixed conifer/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Protect soils if possible, Consider seed tree cut for cedar regen.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required, soils concerns.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Ensure full suspension or helicopter to protect v-notches, wet areas, and shallow soils; remove any debris introduced into notches	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist to verify presence of unmapped fish streams. REMARKS: 5220B SMU along west boundary of unit contains 2.0 acres of mapped riparian habitat. There are several small, unmapped channels emerging from the unit that may contain CI or II fish habitat. CI and II streams should be marked in blue/white flagging and protected as per BMP 12.6 and BMP 13.3, category "A". Place south unit boundary at or above the slope break of Class III, HC6 channel. The unmapped channel on the north boundary should be marked with orange/white flagging and protected as per BMP 13.3, category "B."	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High habitat value. Recommend leaving snags where possible	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myroni SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 291 UNIT NUMBER: 1271 QUAD(s): SITB5NE
 ACRES: 21 VOLUME: 599 MBF HARVEST VOLUME: 479 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 80

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



0 0.19 0.38 Miles

MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



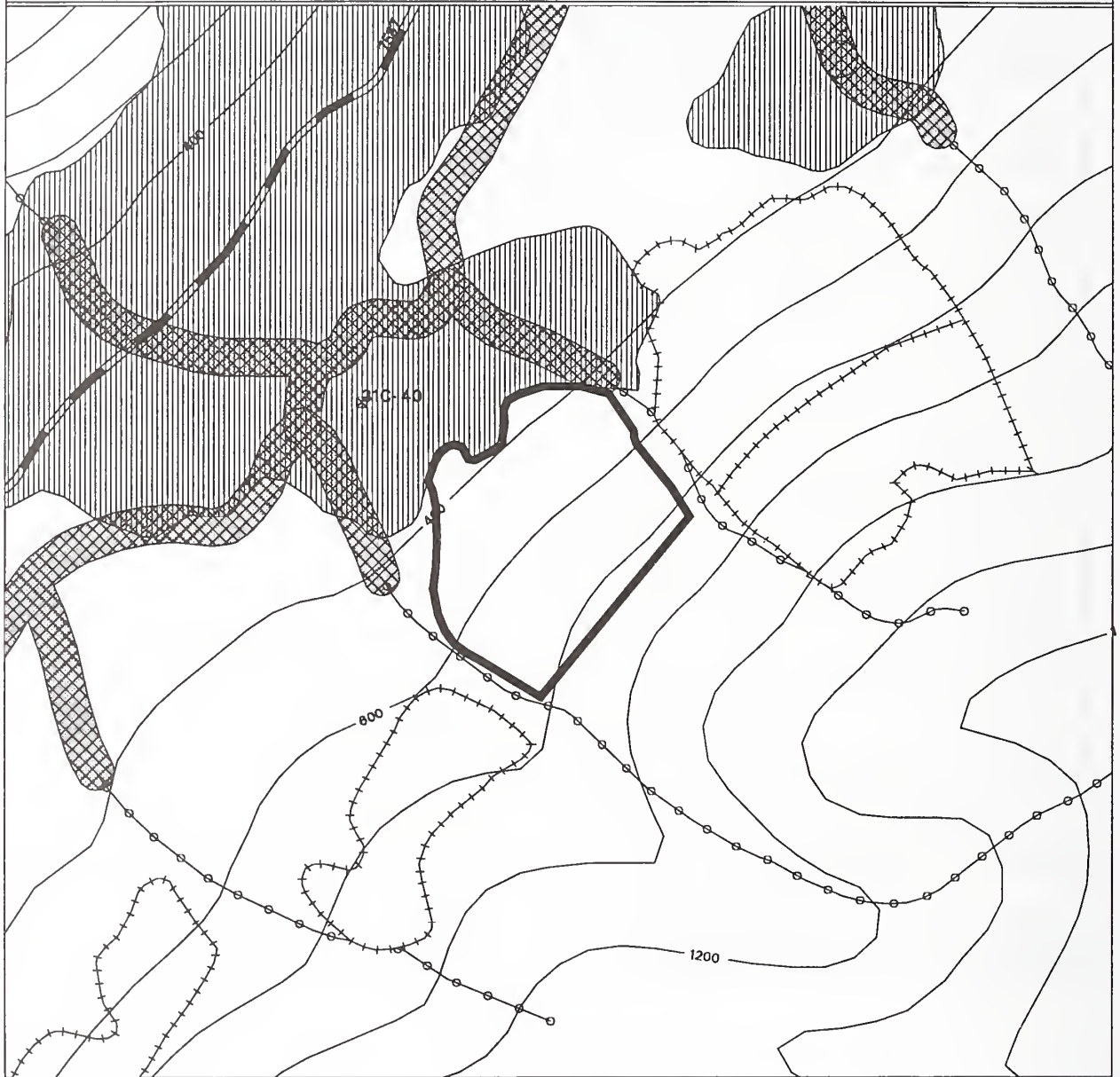
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 1271	VCU: 291
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Protect soils if possible, Consider overstory removal.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required, soils concerns, no road access.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit is dissected and contains wet soils; recommend directional falling away from notches; full suspension over notches and wet soils will be provided by helicopter logging.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No fisheries concerns for this unit.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High habitat value. Recommend leaving snags where possible. Unit is within 1500 feet of known mountain goat habitat. If mountain goats are present within 1500 feet of unit, helicopter yarding should be avoided from May 15 through June 15 (kidding season).</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 291 UNIT NUMBER: 1275 QUAD(s): SITB5NE
 ACRES: 41 VOLUME: 1172 MBF HARVEST VOLUME: 234 MBF
 HARVEST PRESCRIPTION: Group Selection PERCENT VOLUME HARVESTED: 20

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY

UNIT BOUNDARY

ADJACENT UNIT

NEW SPEC. ROAD

TEMPORARY ROAD

EXISTING SPEC. ROAD

SHORELINE

CLASS III STREAM

200 FT CONTOUR INTERVAL

0 0.19 0.38 Miles

MAP SCALE 1:12000

PHOTO POINT

EAGLE TREE

EXISTING CLEARCUTS

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

H HELICOPTER

NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 1275	VCU: 291
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry and mixed conifer/blueberry, Silvicultural diagnosis for treatment is high canopy retention, Protect soils if possible, Consider group selection, make groups 2 acres or smaller.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required, no road access.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: The worst part of this unit was deleted; recommend that group selections be located to minimize impact to v-notches; full suspension will be provided by helicopter logging.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist to verify presence of unmapped fish streams. REMARKS: Unit contains 4.3 acres of mapped riparian habitat within a 5220B SMU along proposed west boundary. There are several small, unmapped channels that may contain CI or II fish habitat that protrude into planned unit. CI and II streams should be marked in blue/white flagging and protected as per BMP 12.6 and BMP 13.3, category "A". Maintain a minimum 100' buffer from CII, AF2 channels at the NW and W unit boundaries. Place north and south unit boundaries at or above the slope break of Class III HC6 channels.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High habitat value. Where possible maintain wildlife travel corridor across unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 289 UNIT NUMBER: 2042 QUAD(s): SITB5NW
 ACRES: 19 VOLUME: 479 MBF HARVEST VOLUME: 455 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



0 0.19 0.38 Miles

MAP SCALE 1:12000

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 2042	VCU: 289
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves. Consider planting cedar.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required, no road access.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No soils concerns.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist verify extent of fish habitat. REMARKS: Unmapped streams that flow out of the north and east unit corners may have fish habitat that reaches the unit, particularly the far northern tip. Mark fish streams with blue/white flagging and protect as per BMP 12.6a and 12.6. Class III habitat on the stream that borders the west boundary should be protected as per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible and leaving reserve trees near edge of unit. Eagle nest tree 12335122 is potentially within 1/4 mile of the helicopter yarding path for this unit. If the helicopter yarding path must occur within 1/4 mile of the eagle nest tree, helicopter yarding should be avoided from March 1 through May 31, and if nest is active, helicopter yarding should be avoided from May 31 through August 31, per Interagency Agreement with the USF&WS.</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 289 UNIT NUMBER: 2043 QUAD(s): SITB5NW
 ACRES: 68 VOLUME: 1716 MBF HARVEST VOLUME: 1630 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



0 0.19 0.38 Miles

MAP SCALE 1:12000

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 2043

VCU: 289

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is mixed conifer/blueberry/skunk cabbage and Western hemlock-yellow cedar/menziesia, Silvicultural diagnosis for treatment is low canopy retention, Consider replanting with cedar, Clearcut with reserves.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Helicopter yarding required, no road access planned. Soils concerns.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Unit contains oversteepened areas, some unstable soils, and cliffs; full suspension will be provided by helicopter logging; ensure cliffs are protected from harvest.

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist verify fish streams, and check TTRA buffers.
 REMARKS: Class I fish habitat in PA1 channel, and in unmapped channels throughout 3.6 acres of emergent wetland. Protect as per BMP 12.6a and 12.6. Unmapped channel along south boundary has class I and II fish habitat at lower end, and should be protected as per BMP 12.6a and 12.6. Class III habitat upstream should be protected as per BMP 13.3, category "B."

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend leaving snags where possible and leaving reserve trees near edge of unit. Eagle nest tree 12335122 is potentially within 1/4 mile of the helicopter yarding path for this unit. If the helicopter yarding path must occur within 1/4 mile of the eagle nest tree, helicopter yarding should be avoided from March 1 through May 31, and if nest is active, helicopter yarding should be avoided from May 31 through August 31, per Interagency Agreement with the USF&WS.

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Unit as planned does not meet VQO. Place reserve trees and feather western boundary to screen harvested ground.

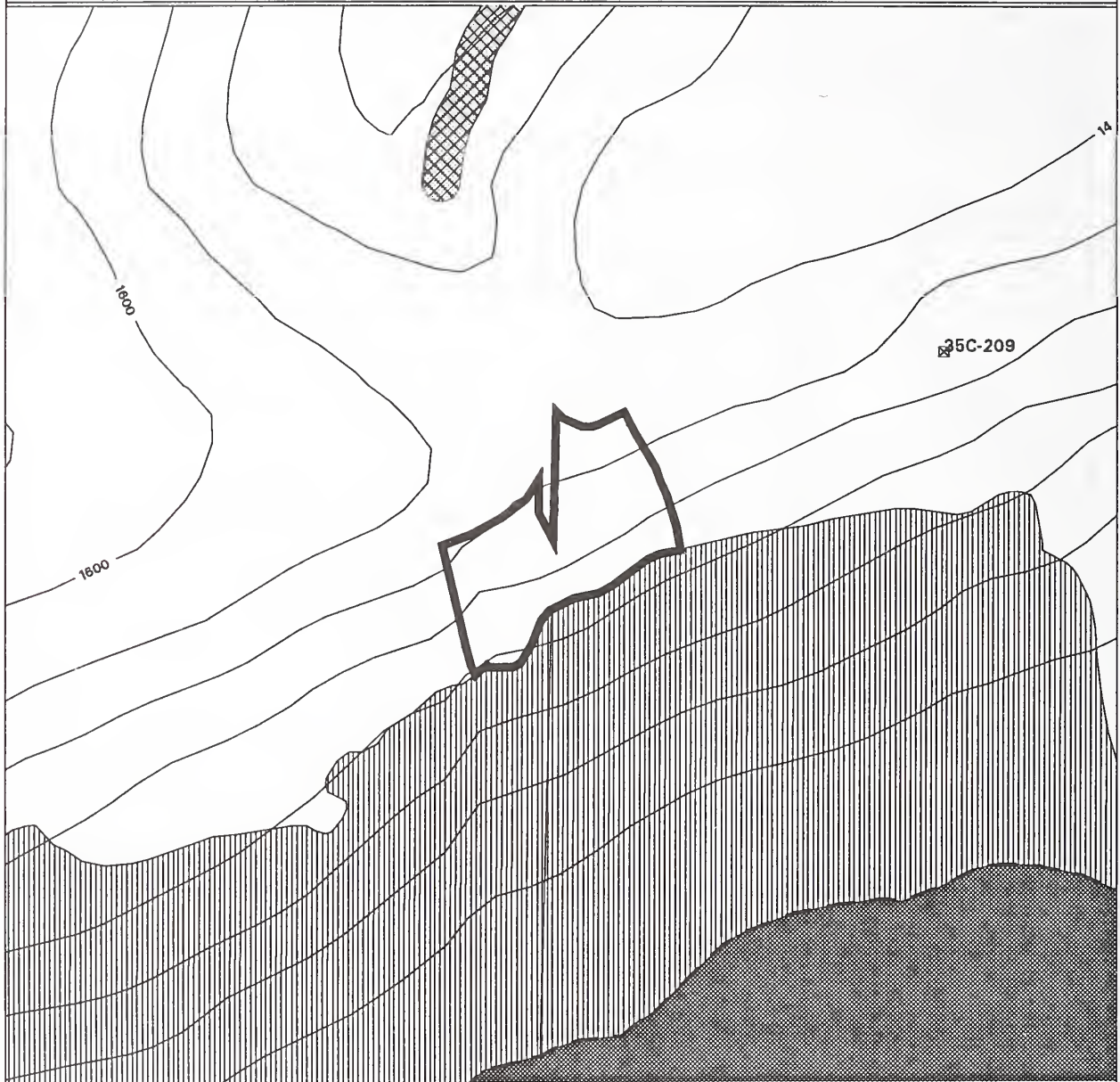
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3002 QUAD(s): SITB5NE/SITB4NW
 ACRES: 24 VOLUME: 688 MBF HARVEST VOLUME: 654 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



0 0.19 0.38 Miles

MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3002

VCU: 291/292

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Sitka spruce/blueberry/skunk cabbage,
 Silvicultural diagnosis for treatment is low canopy retention, , Clearcut
 with reserves.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Helicopter Yarding Required, no road access planned. Soils concerns.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Unit contains small areas of oversteepened and unstable soil; full
 suspension will be provided by helicopter logging.

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No concerns.

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend leaving snags where possible and leaving reserve trees near
 edge of unit

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Unit as planned does not meet VQO.

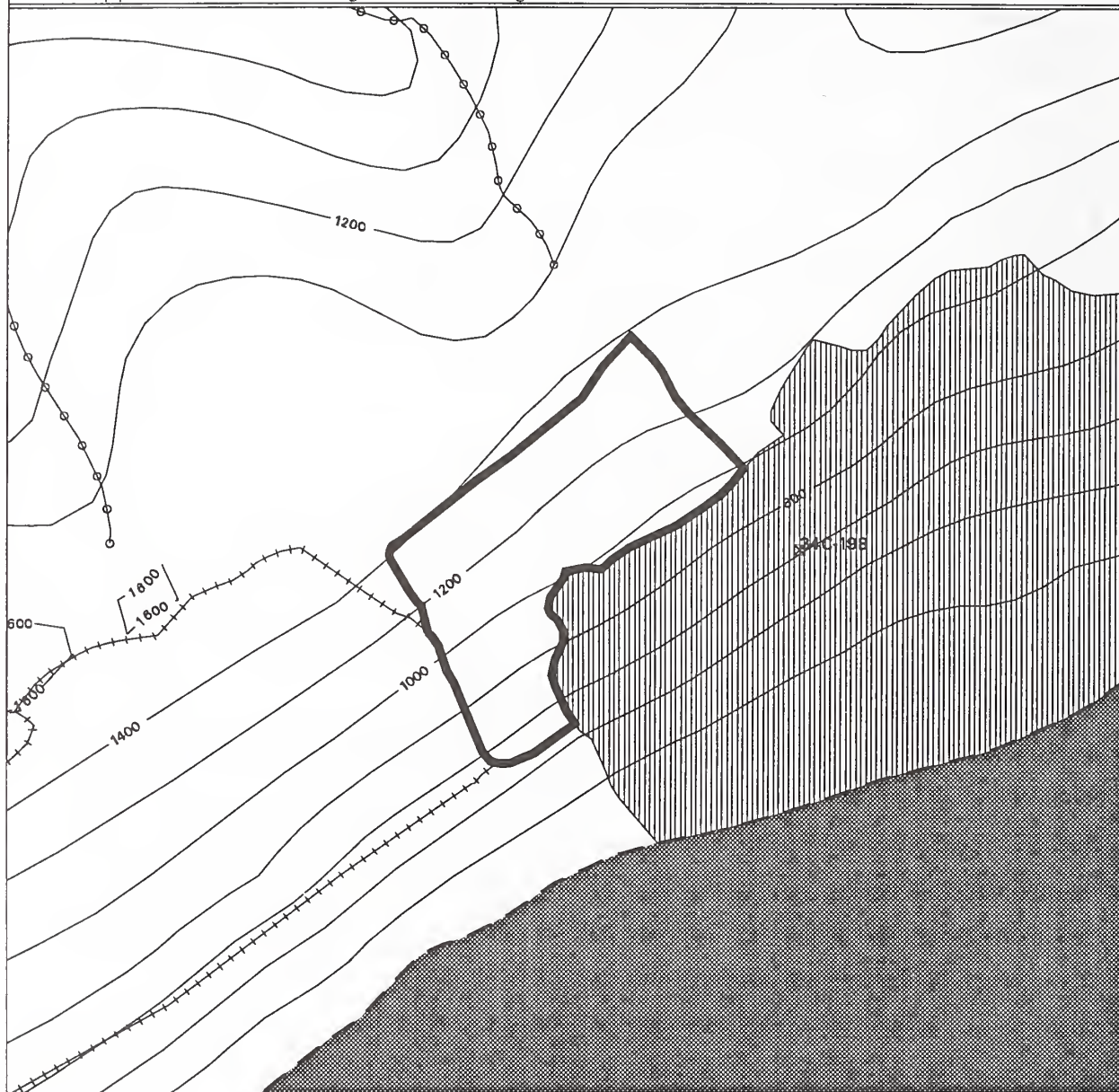
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3011 QUAD(s): SITB5NE
 ACRES: 48 VOLUME: 1298 MBF HARVEST VOLUME: 260 MBF
 HARVEST PRESCRIPTION: Group Selection PERCENT VOLUME HARVESTED: 20

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



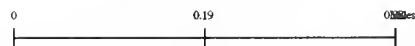
EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3011

VCU: 292

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Western hemlock/blueberry/skunk cabbage, Protect
 soils if possible, Silvicultural diagnosis for treatment is high canopy
 retention, Consider group selection, make groups 2 acres or smaller.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Helicopter yarding required, road access is uneconomical. Soils
 concerns.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend for helicopter or provide full suspension over entire unit;
 ensure lower boundary is above any oversteepened areas (>75%) if found during
 layout

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No concerns.

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend leaving snags where possible

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3012 QUAD(s): SITB5NE
 ACRES: 138 VOLUME: 3899 MBF HARVEST VOLUME: 2729 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 70

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3012

VCU: 292

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Sitka spruce/blueberry and mixed
 conifer/blueberry. Silvicultural diagnosis for treatment is low canopy
 retention, Mistletoe infection in and below unit, Clearcut with reserves.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Helicopter yarding required, road access uneconomical. Soils
 concerns, no harvest if over 80 % for 100 feet.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend at least partial suspension with full suspension over v-
 notches; full suspension is preferred

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No concerns.

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: High subsistence value. Recommend leaving snags where possible and
 leaving reserve trees near edge of unit. Unit is within 1/4 mile of eagle nest
 tree 12325088. Helicopter yarding should be avoided from March 1 through May
 31. If nest is active, helicopter yarding should be avoided from May 31
 through August 31 per Interagency Agreement with the USF&WS. Unit is within
 1500 feet of known mountain goat habitat. If mountain goats are present
 within 1500 feet of unit, helicopter yarding should be avoided from May 15
 through June 15 (kidding season).

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

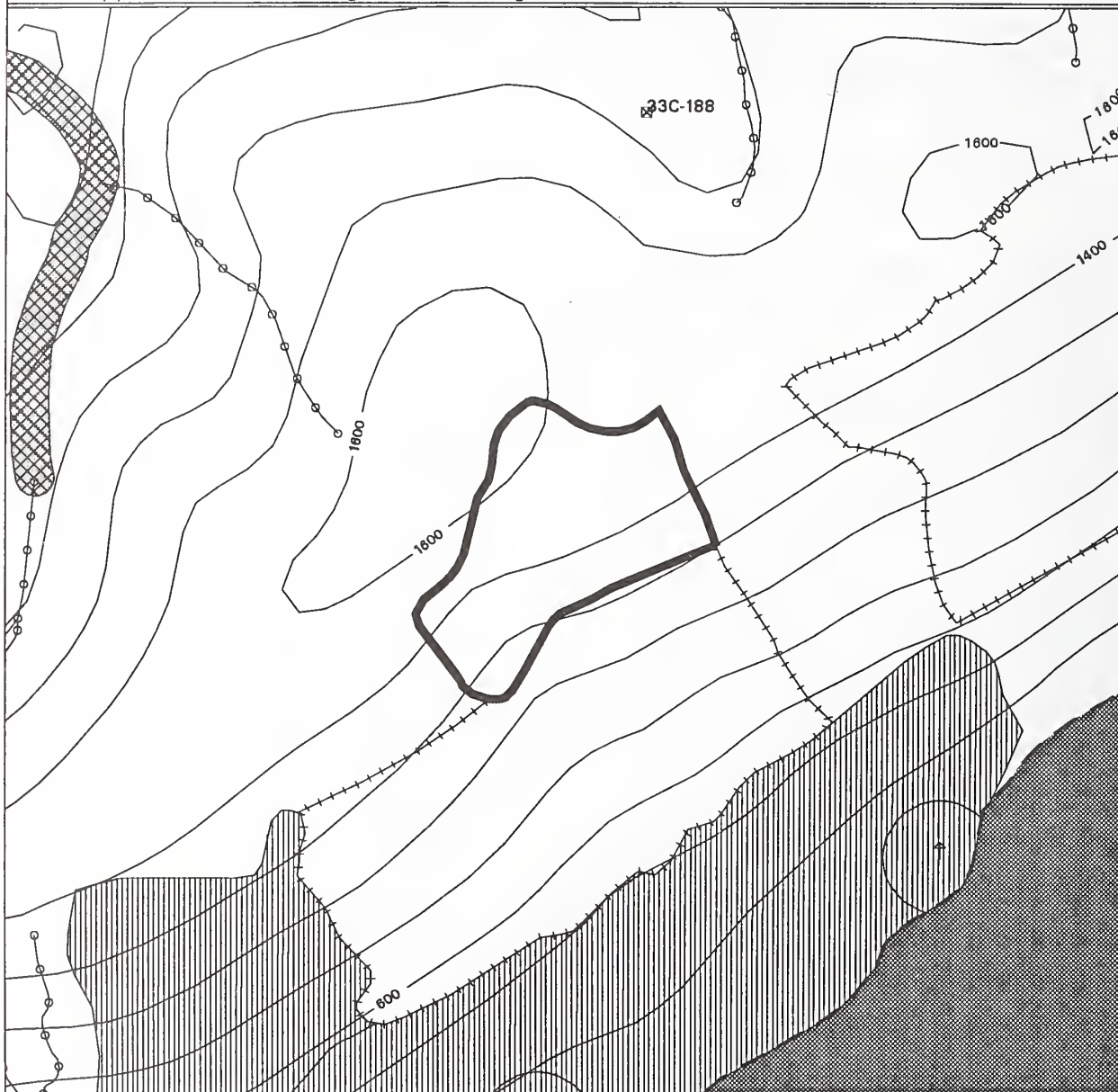
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3014 QUAD(s): SITB5NE
 ACRES: 36 VOLUME: 913 MBF HARVEST VOLUME: 867 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



0 0.19 0.38 Miles

MAP SCALE 1:12000

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3014

VCU: 291/292

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Sitka spruce-mountain hemlock/blueberry,
~~Silvicultural diagnosis for treatment is low canopy retention, Protect soils~~
 if possible, Clearcut with reserves.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Helicopter yarding required, road access is uneconomical. Soils concerns.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Remove any debris introduced into large v-notches in center of unit;
~~ensure backline is below area containing old slides; recommend full suspension~~
 for entire unit

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: An unmapped, Class III, HC6 channel occurs in the SW corner of the unit. This channel should be flagged in orange/white, and protected as per BMP 13.3, category B. A small, Class III lake near the NE corner of the unit should be given a 100' buffer to protect water quality (BMP 13.16). Selective harvest of some merchantable trees would be appropriate if there is a high risk of blowdown, and a vegetative filter would be left between the lake and harvest area.

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend leaving snags where possible and leaving reserve trees near edge of unit. Unit is within 1/4 mile of eagle nest trees 12325014, 12325089, 12325090, and 12325015. Helicopter yarding should be avoided from March 1 through May 31. If a nest is active, helicopter yarding should be avoided from May 31 through August 31 per Interagency Agreement with the USF&WS. Unit is within 1500 feet of known mountain goat habitat. If mountain goats are present within 1500 feet of unit, helicopter yarding should be avoided from May 15 through June 15 (kidding season).

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3015 QUAD(s): SITB5NE
 ACRES: 94 VOLUME: 2725 MBF HARVEST VOLUME: 545 MBF
 HARVEST PRESCRIPTION: Group Selection PERCENT VOLUME HARVESTED: 20

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM

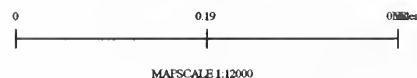


PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3015

VCU: 292

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is mixed conifer/blueberry, Silvicultural diagnosis for treatment is high canopy retention, Recommend group selection, with up to 2 acre groups.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Helicopter yarding required. Soils concerns, no harvest on slopes over 75%.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist
 REMARKS: Unit contains oversteepened slopes, many v-notches, cliffs, wet soils, shallow or rocky soils, and blowdown; recommend ensuring backline is below wet soils; directionally fall trees away from notches and remove any debris introduced into notches; helicopter logging will provide full suspension over hazardous soils but recommend the presence of a soil scientist during layout to help determine where group selections will be made.

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Two unmapped Class III, HC6 channels bisect the middle of the unit. These channels should be flagged in orange/white, and protected as per BMP 13.3, category B.

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Where possible maintain wildlife travel corridor across unit. Unit is within 1/4 mile of eagle nest trees 12325014, 12325089, 12325090, and 12325015. Helicopter yarding should be avoided from March 1 through May 31. If a nest is active, helicopter yarding should be avoided from May 31 through August 31 per Interagency Agreement with the USF&WS.

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

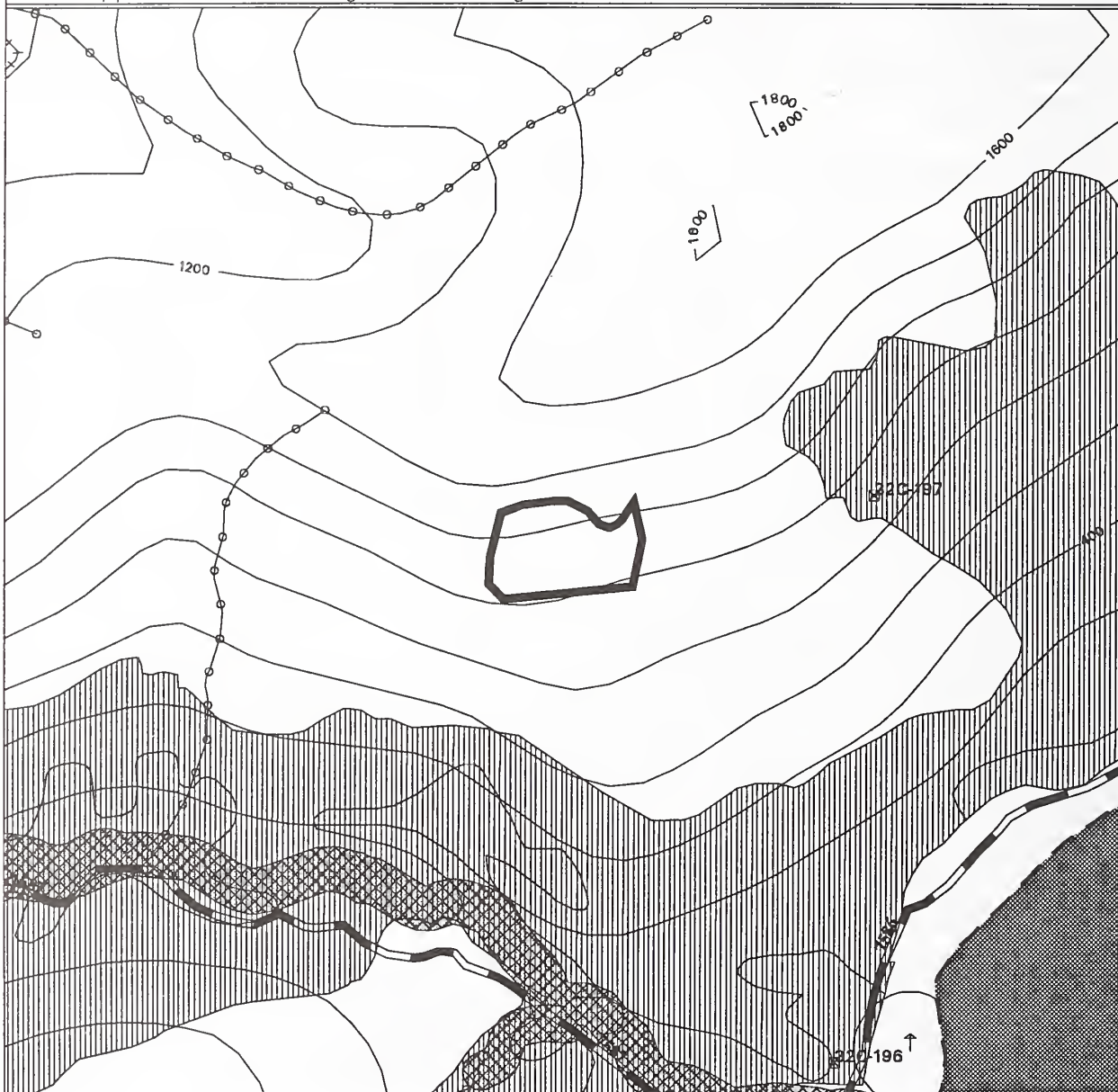
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3033 QUAD(s): SITB5NE
 ACRES: 9 VOLUME: 227 MBF HARVEST VOLUME: 193 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



0 0.19 0.38 Miles

MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



NORTHWEST BARANOF HARVEST UNIT CARD

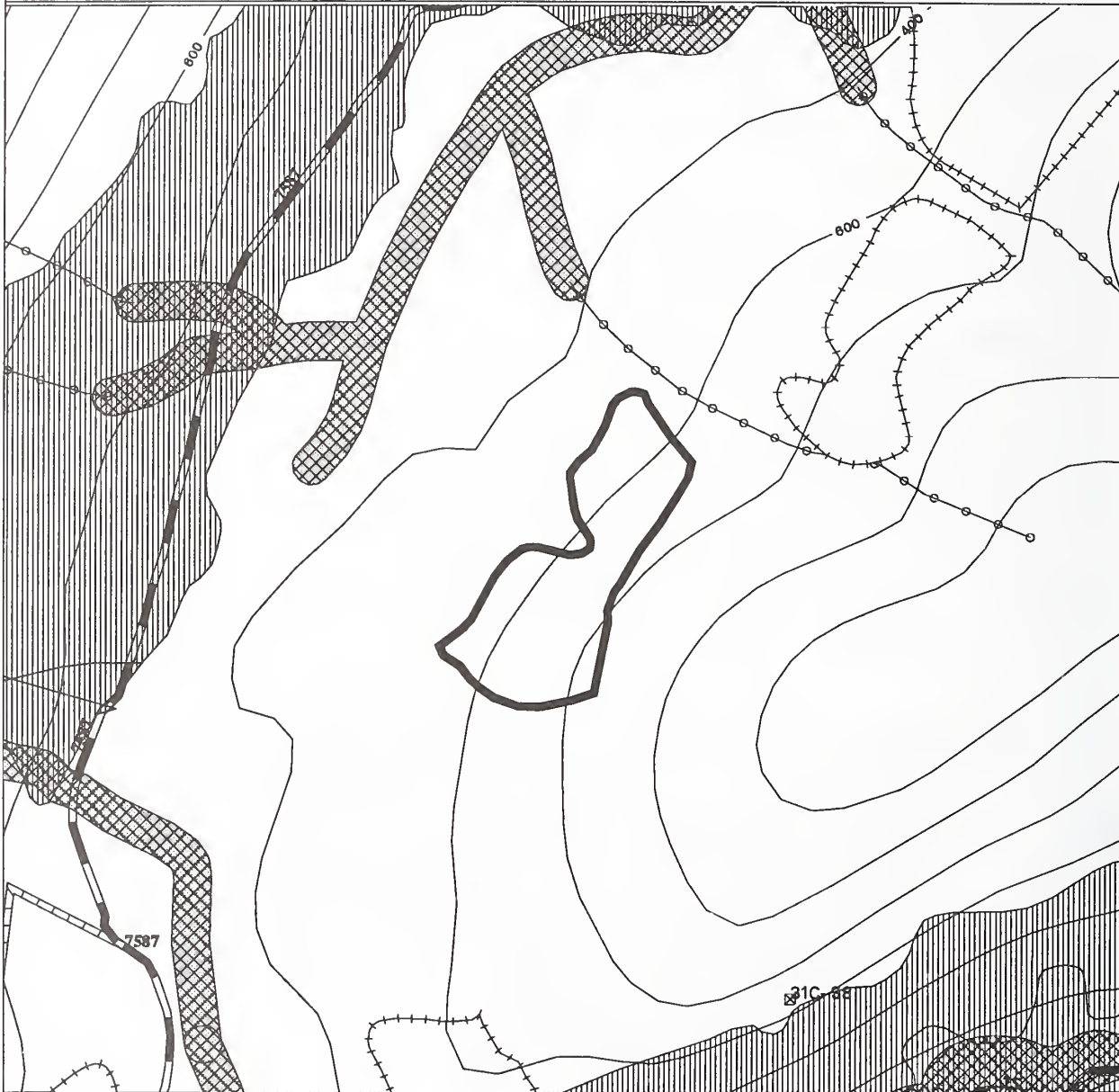
UNIT: 3033	VCU: 292
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Sitka spruce-mountain hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Consider seed tree cut to encourage spruce/cedar regen. Portions of unit have wet soils.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required, no road access.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Small unstable areas are present; soils will be protected by full suspension provided by helicopter logging.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible. Unit is within 1500 feet of known mountain goat habitat. If mountain goats are present within 1500 feet of unit, helicopter yarding should be avoided from May 15 through June 15 (kidding season).	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD

PLANNED HARVEST UNIT MAP

VCU: 291 UNIT NUMBER: 3041 QUAD(s): SITB5NE
 ACRES: 25 VOLUME: 658 MBF HARVEST VOLUME: 560 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY	
UNIT BOUNDARY	
ADJACENT UNIT	
NEW SPEC. ROAD	
TEMPORARY ROAD	
EXISTING SPEC. ROAD	
SHORELINE	
CLASS III STREAM	

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT

EAGLE TREE

EXISTING CLEARCUTS

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3041		VCU: 291/292	
<p> { SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Plant association is Sitka spruce-mountain hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Consider seed tree for cedar regen. </p>			
<p> { TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required, no road access. Soils concerns. </p>			
<p> { LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns </p>			
<p> { SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: This unit contains wet soils on relatively steep slopes; helicopter logging will ensure full suspension over these soils; recommend falling trees away from v-notches and remove any debris introduced into them. </p>			
<p> { FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist. Check W boundary for CII streams at layout. REMARKS: 6174B SMU along western base of unit contains swales and rills that may contain CII fish habitat. Mark any CII streams with Blue/white striped flagging and protect as per BMP 12.6, and BMP 13.3 category "A" stream course. </p>			
<p> { HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks </p>			
<p> { WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible. Unit is within 1500 feet of known mountain goat habitat. If mountain goats are present within 1500 feet of unit, helicopter yarding should be avoided from May 15 through June 15 (kidding season). </p>			
<p> { VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective </p>			
<p> { RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns </p>			
<p> { HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area </p>			

VCU: 292 UNIT NUMBER: 3043 QUAD(s): SITB5NE
ACRES: 10 VOLUME: 252 MBF HARVEST VOLUME: 214 MBF
HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

[illegible]

SETTING BOUNDARY	
UNIT BOUNDARY	
ADJACENT UNIT	
NEW SPEC. ROAD	
TEMPORARY ROAD	
EXISTING SPEC. ROAD	
SHORELINE	
CLASS III STREAM	

0 0.19 0.38

MAP SCALE 1:12000

H HELICOPTER

PHOTO POINT

EAGLE TREE

EXISTING CLEARCUTS

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



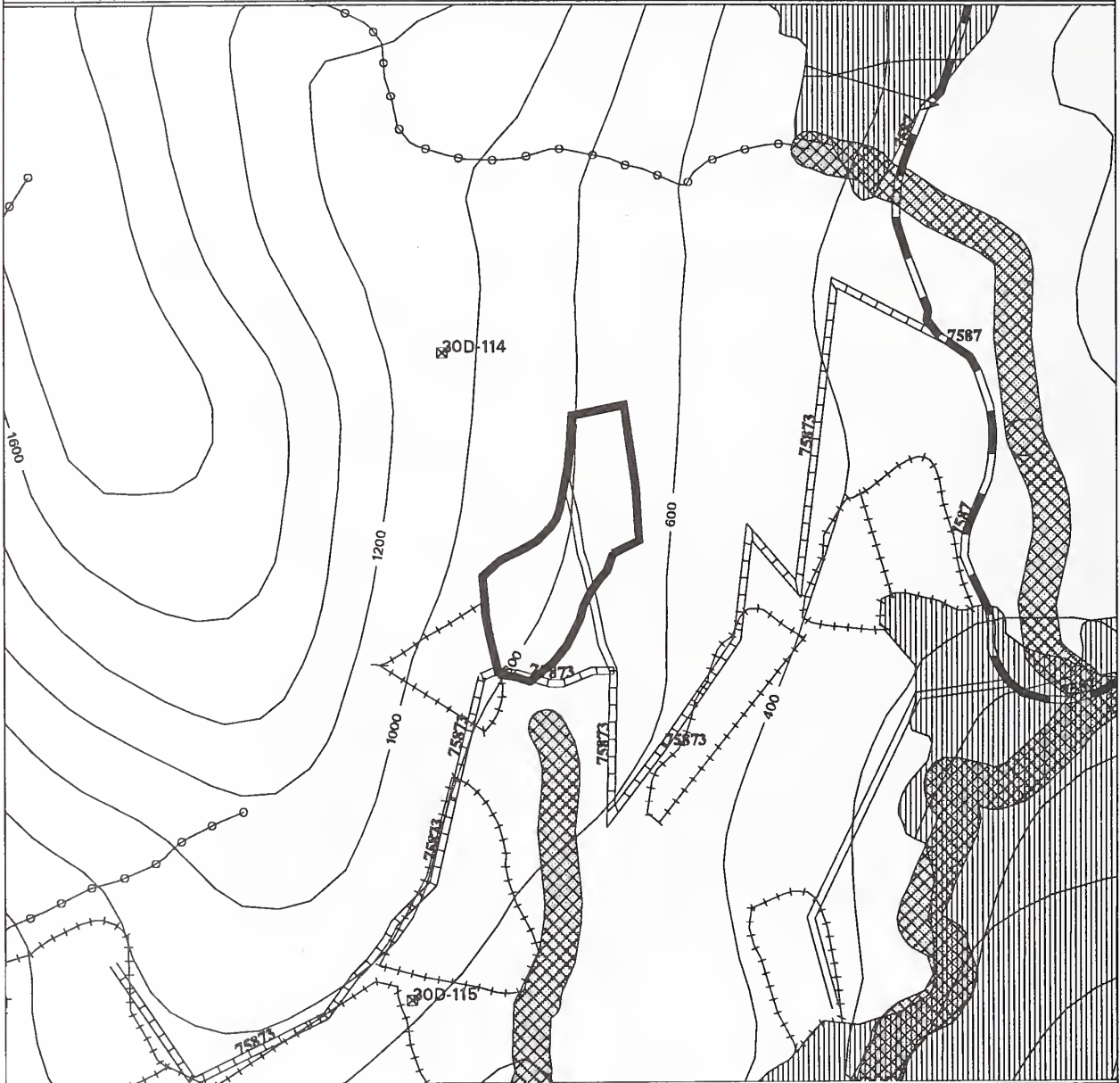
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3043		VCU: 292	
{ SILVICULTURE }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Dougan	
SPECIALISTS NEEDED DURING LAYOUT: None Needed			
REMARKS: Plant association is mixed conifer/blueberry, Silvicultural diagnosis for treatment is low canopy retention. Protect regeneration and soils if possible, Consider seed tree cut for cedar regen.			
{ TIMBER }	FIELD REVIEWED: Yes	RECOMMENDED BY: L.Mork	
SPECIALISTS NEEDED DURING LAYOUT: None Needed			
REMARKS: Helicopter yarding required, road access is uneconomical. Soils concerns.			
{ LANDS }	FIELD REVIEWED: No	RECOMMENDED BY: J.Morrell	
SPECIALISTS NEEDED DURING LAYOUT: None Needed			
REMARKS: No Concerns			
{ SOILS }	FIELD REVIEWED: Yes	RECOMMENDED BY: R.Huecker	
SPECIALISTS NEEDED DURING LAYOUT: None Needed			
REMARKS: Recommend full suspension for entire unit			
{ FISHERIES }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Lorenz	
SPECIALISTS NEEDED DURING LAYOUT: None Needed			
REMARKS: Unmapped Class III stream in center of unit should be marked in orange/white flagging and protected as per BMP 13.3, category "B."			
{ HYDROLOGY }	FIELD REVIEWED: No	RECOMMENDED BY: D.Kelliher	
SPECIALISTS NEEDED DURING LAYOUT: None Needed			
REMARKS: See Fisheries For Remarks			
{ WILDLIFE }	FIELD REVIEWED: Yes	RECOMMENDED BY: C.Hartmann	
SPECIALISTS NEEDED DURING LAYOUT: None Needed			
REMARKS: Recommend leaving snags where possible			
{ VISUALS }	FIELD REVIEWED: Yes	RECOMMENDED BY: E.Ouderkirk	
SPECIALISTS NEEDED DURING LAYOUT: None Needed			
REMARKS: Within visual quality objective			
{ RECREATION }	FIELD REVIEWED: No	RECOMMENDED BY: B.Flynn	
SPECIALISTS NEEDED DURING LAYOUT: None Needed			
REMARKS: No specific concerns			
{ HERITAGE }	FIELD REVIEWED: No	RECOMMENDED BY: R.Myron	
SPECIALISTS NEEDED DURING LAYOUT: None Needed			
REMARKS: Low probability area			

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3051 QUAD(s): SITB5NE
 ACRES: 17 VOLUME: 429 MBF HARVEST VOLUME: 365 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY	
UNIT BOUNDARY	
ADJACENT UNIT	
NEW SPEC. ROAD	
TEMPORARY ROAD	
EXISTING SPEC. ROAD	
SHORELINE	
CLASS III STREAM	

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT

EAGLE TREE

EXISTING CLEARCUTS

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

C CABLE

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3051

VCU: 292

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is western hemlock-Alaska cedar/blueberry and mixed
 conifer/blueberry, ~~Silvicultural diagnosis for treatment is low canopy~~
 retention, Consider seed tree cut for cedar regen. Soils wet in areas.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Majority of unit to be yarded with Live Skyline. Helicopter yarding
 subdivision on small portion adjacent to Unit 3052. Soils concerns.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS:

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Ensure unit boundary along north side excludes wet, highly dissected
 soils; ~~splityard on notch in center of unit; full suspension recommended for~~
 center of unit and over notches in southern portion.

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: None Provided

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend leaving snags where possible

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

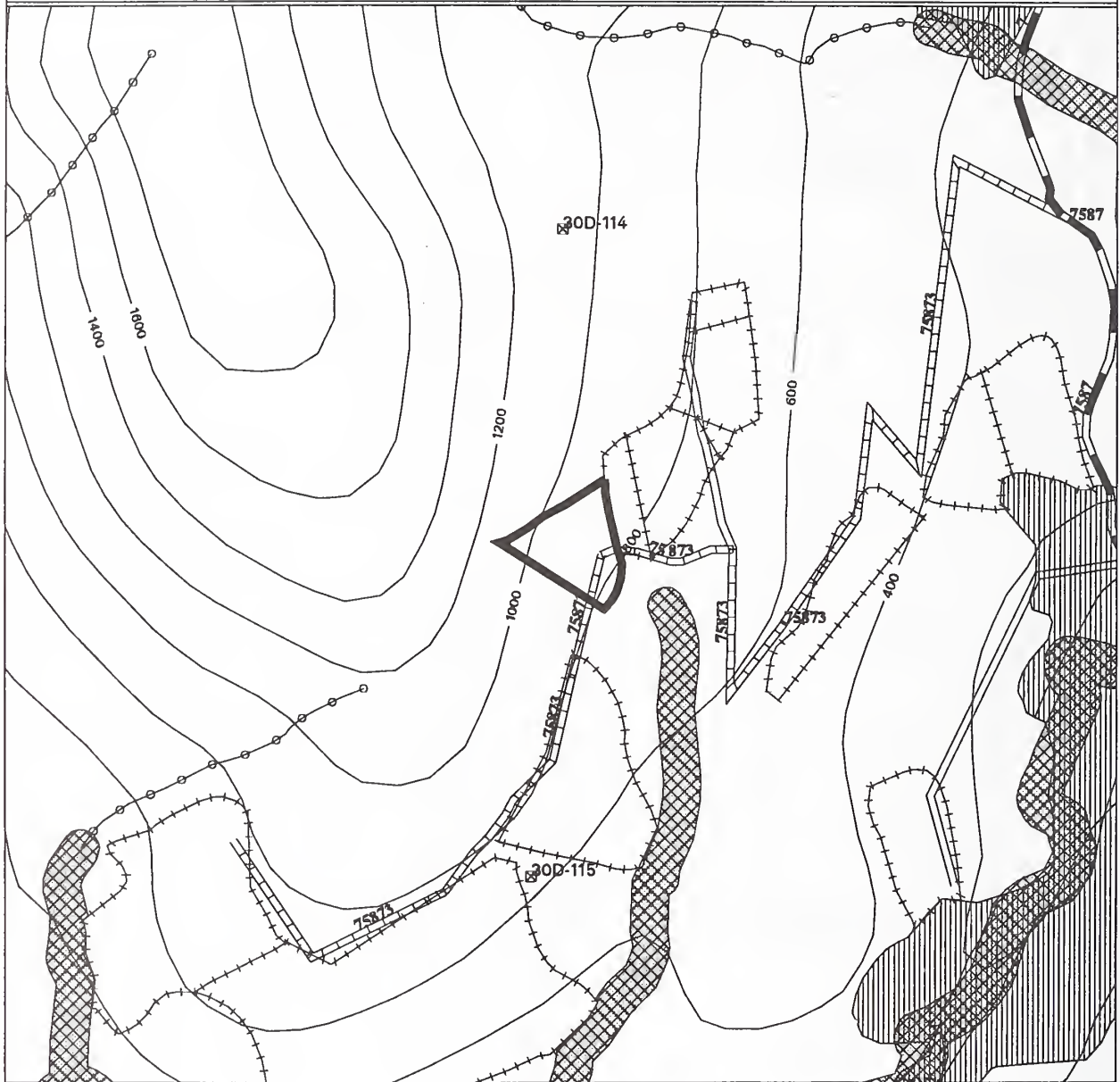
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3052 QUAD(s): SITB5NE
 ACRES: 6 VOLUME: 151 MBF HARVEST VOLUME: 144 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



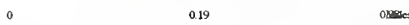
SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL



MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



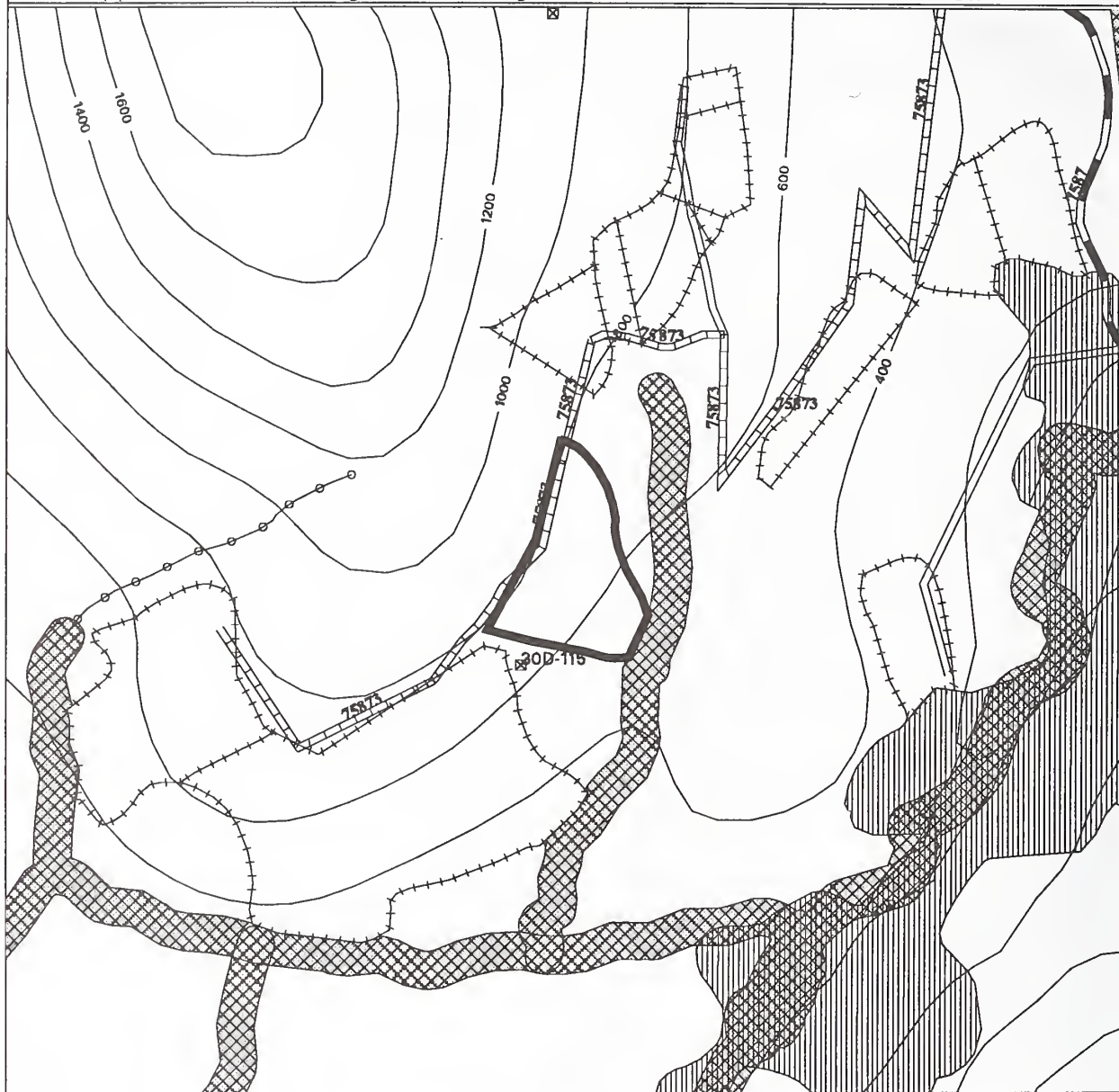
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3052	VCU: 292
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, silvicultural diagnosis for treatment is low canopy retention, Consider replanting.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. Soils concerns.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend at least partial suspension with full suspension over notches	
{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3053 QUAD(s): SITB5NE
 ACRES: 15 VOLUME: 379 MBF HARVEST VOLUME: 360 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL

0 0.19 0.38 Miles

MAP SCALE 1:12000

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

C CABLE



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3053

VCU: 292

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Western hemlock-yellow cedar/blueberry,
 Silvicultural diagnosis for treatment is low canopy retention, Protect soils
 where possible.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Live Skyline. Partial suspension required for soils protection. One
 profile run from Landing 1.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Ensure backline is below oversteepened, cliffy slopes; recommend full
 suspension over notches and at least partial suspension elsewhere.

{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist review of TTRA buffer
 layout.
 REMARKS: Class II stream in SE corner of unit should be marked in blue/white
 flagging, and protected as per BMP 12.6, 12.6a, and 13.3, category "A".

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend leaving snags where possible and leaving reserve trees near
 edge of unit

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

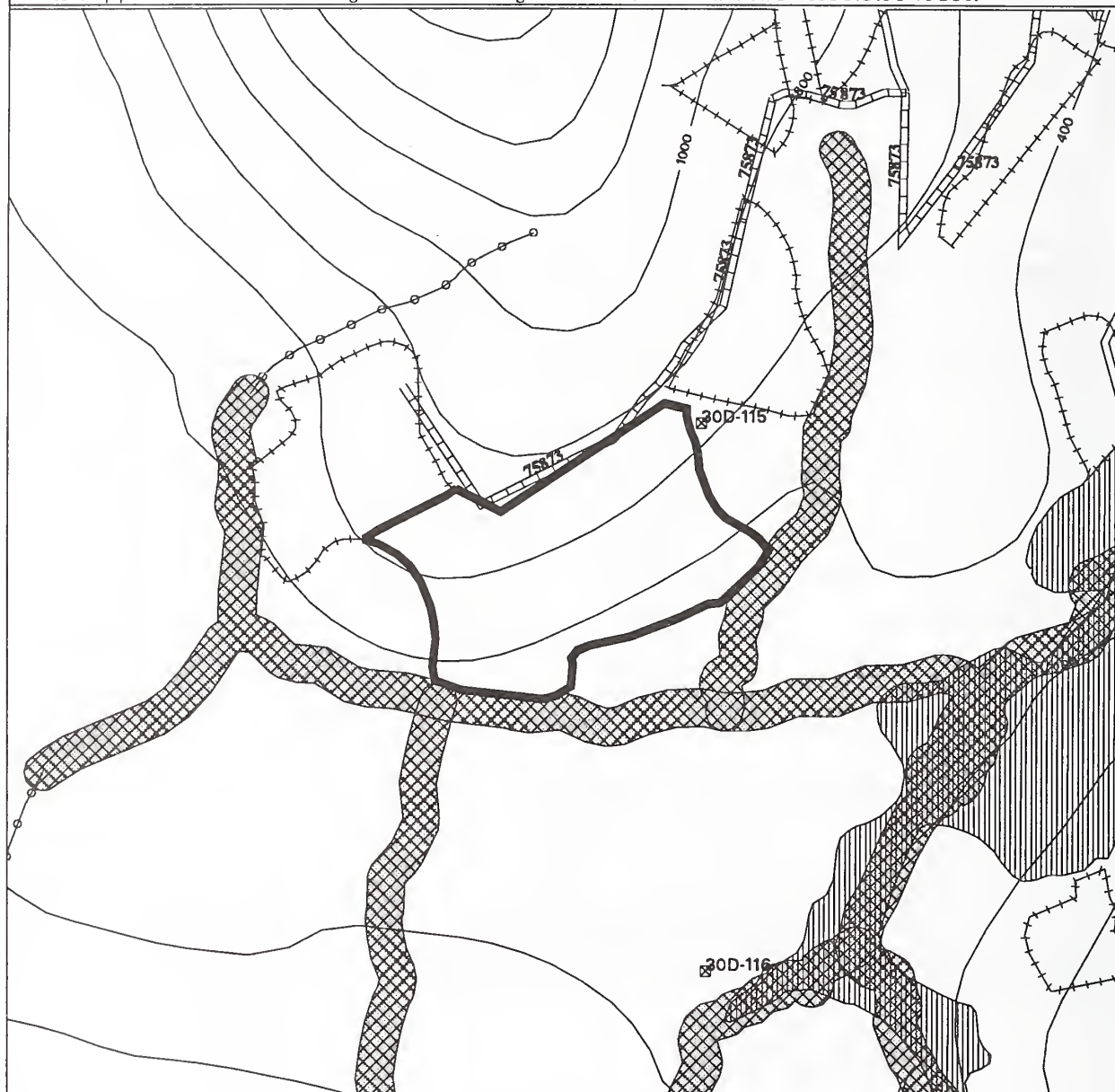
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area









NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3054 QUAD(s): SITB5NE
 ACRES: 47 VOLUME: 1186 MBF HARVEST VOLUME: 1127 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95






Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY 
 UNIT BOUNDARY 
 ADJACENT UNIT 
 NEW SPEC. ROAD 
 TEMPORARY ROAD 
 EXISTING SPEC. ROAD 
 SHORELINE 
 CLASS III STREAM 

0 0.19 0.38
 MAP SCALE 1:12000

PHOTO POINT 
 EAGLE TREE 
 EXISTING CLEARCUTS 
 SALTWATER AND LAKES 
 CLASS I & II STREAM BUFFER 

LOGGING SYSTEMS:

C CABLE



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3054

VCU: 292

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Western hemlock-yellow cedar/blueberry,
 Silvicultural diagnosis for treatment is low canopy retention, Protect soils
 where possible, Protect regeneration where possible.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Live Skyline. Profiles run from Landings 1 & 2. Partial suspension
 attained. Soils and Fisheries concerns.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None needed
 REMARKS: Unit contains cliffs and oversteepened areas; ensure cliffy areas are
 protected from harvest; recommend full suspension on slopes steeper than 70
 percent and at least partial suspension elsewhere to protect soils.

{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist review of TTRA buffer
 layout.
 REMARKS: The lower unit boundary and the lower 1/4 of the NE and SW side
 boundaries are within 100' of Class I fish streams. The streams include the
 main FP3 channel of Adams Creek, and several small unmapped channels on mixed
 wetland habitat. The fish streams should be marked with blue/white flagging
 and protected as per BMP 12.6 a, 12.6, and 13.3, "A". Steep areas that are
 perched above fish habitat may need a wider buffer than normal due to the high
 soil mass movement hazard. Tailhold trees should not be removed from the
 buffer if felled to comply with OSHA standards. Stream buffers will result in
 a reduction of several acres from the proposed unit.

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend leaving snags where possible and leaving reserve trees near
 edge of unit

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

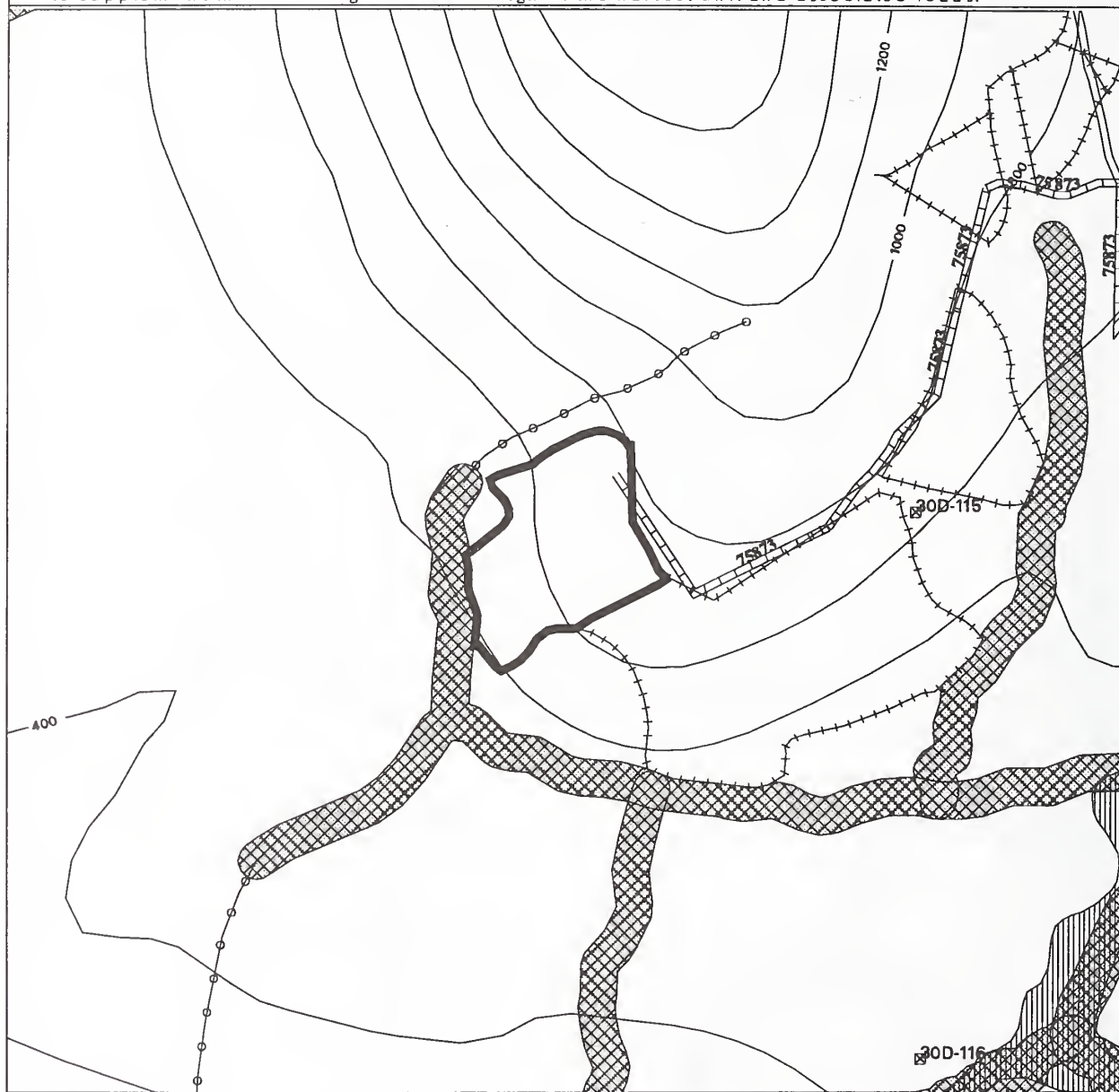
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3055 QUAD(s): SITB5NE
 ACRES: 22 VOLUME: 555 MBF HARVEST VOLUME: 527 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

C CABLE

NORTHWEST BARANOF HARVEST UNIT CARD

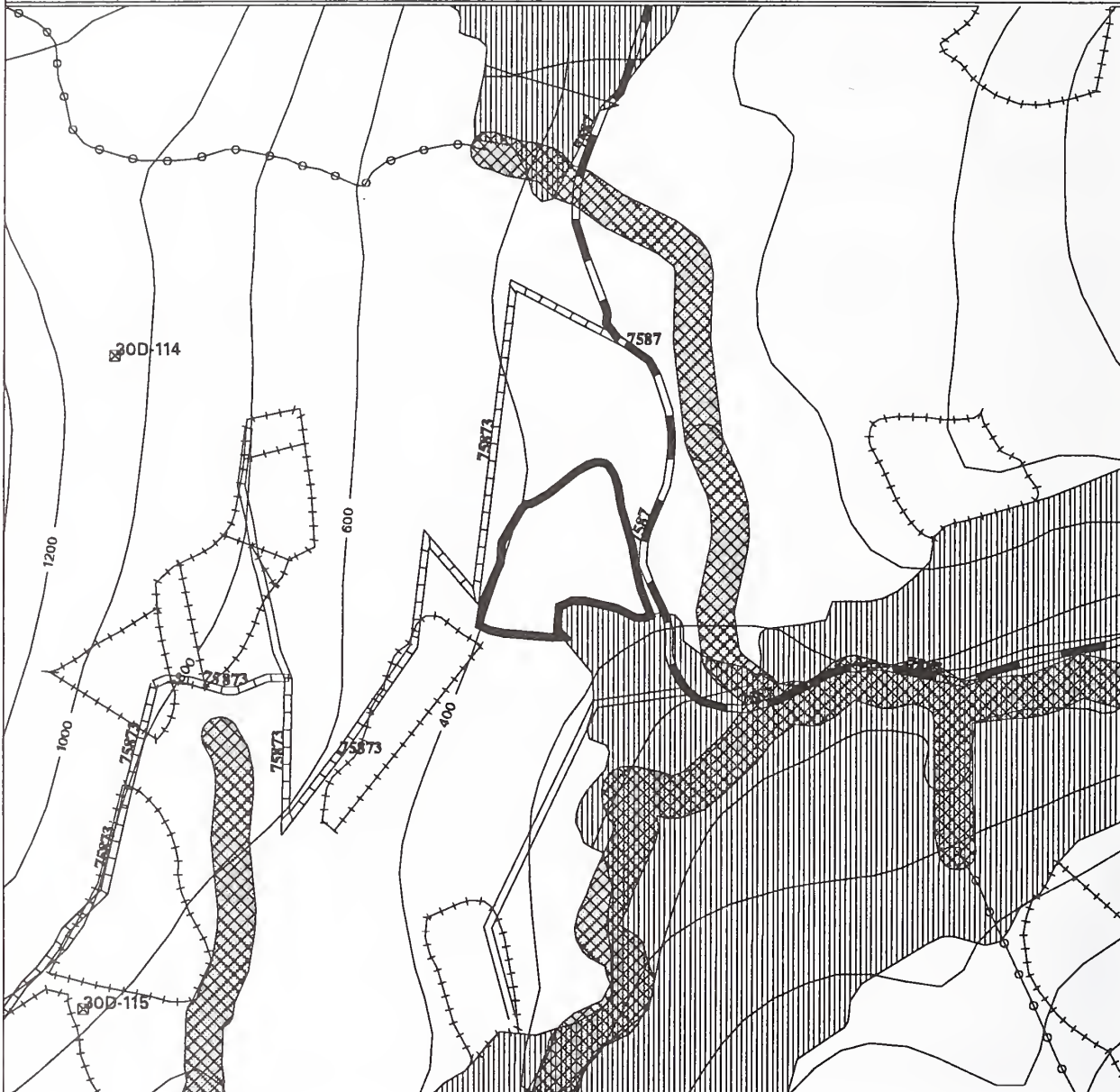
UNIT: 3055	VCU: 292
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Protect regeneration where possible.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Profiles run from Landing 1. Partial suspension attained.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit dissected and has some oversteepened areas; recommend full suspension for entire unit; recommend directional falling away from v-notches.</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist review of layout. REMARKS: Several Class I and II streams occur in the lower half of the unit below the planned road. A Class I, AFl channel flows along most of the lower boundary. Three unmapped Class II tributaries flow from the unit to the AFl channel. Approximately half of this unit is within a TTRA buffer, and must be dropped.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit as planned does not meet VQO. Feather edges and retain reserves near boundary to break up large geometric form.</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD

PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3061 QUAD(s): SITB5NE
 ACRES: 14 VOLUME: 353 MBF HARVEST VOLUME: 71 MBF
 HARVEST PRESCRIPTION: Group Selection PERCENT VOLUME HARVESTED: 20

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3061

VCU: 292

{ **SILVICULTURE** } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: Plant association is Western hemlock-yellow cedar/menziesia. ,
Silvicultural diagnosis for treatment is high canopy retention, Consider group
selection with small groups. Soils rocky, shallow in spots. Upper unit very
steep.

{ **TIMBER** } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: Helicopter yarding required. Soils Concerns.

{ **LANDS** } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: No Concerns

{ **SOILS** } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist
REMARKS: Unit contains oversteepened areas, slide/slumps, and v-notches; full
suspension will be provided by helicopter logging; recommend a soil scientist
be present during layout to help determine location of group selections to
minimize damage to soils.

{ **FISHERIES** } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz
SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist verify class of stream
in SE corner.
REMARKS: Mark unmapped stream that splits northern 1/3 of unit with
orange/white flagging and protect as per BMP 13.3, category "B." An unmapped
stream along the S boundary turns into a fish stream within the old clearcut
unit to SE of unit 3061. Mark with orange/white flagging along boundary, and
protect as per BMP 13.3, category "B." Maintain minimum 100' stream buffer as
per BMP 12.6 a and 12.6, for any class I or II portions of the stream.

{ **HYDROLOGY** } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: See Fisheries For Remarks

{ **WILDLIFE** } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: Where possible maintain wildlife travel corridor across unit

{ **VISUALS** } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: Within visual quality objective

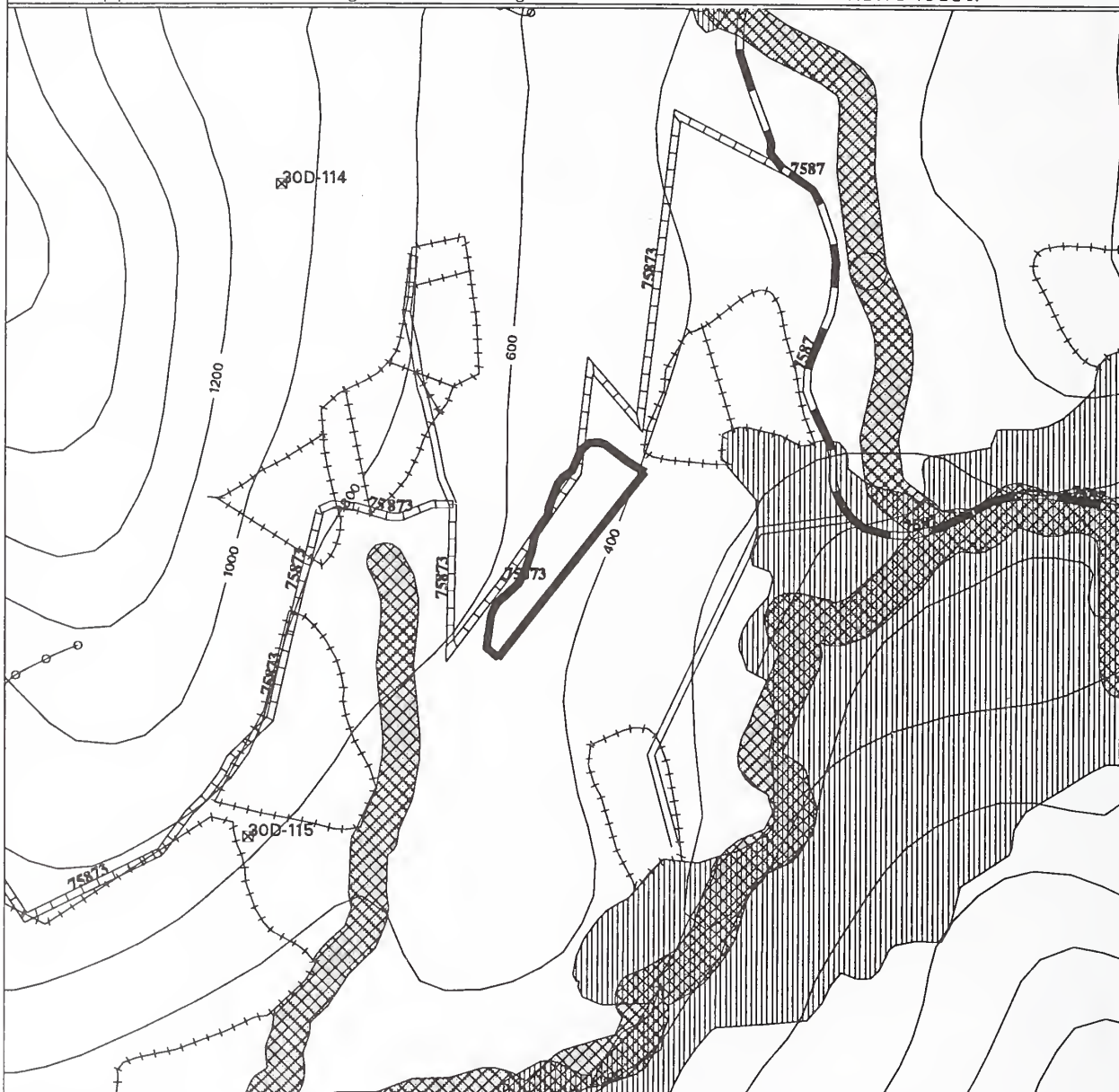
{ **RECREATION** } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: No specific concerns

{ **HERITAGE** } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3062 QUAD(s): SITB5NE
 ACRES: 8 VOLUME: 202 MBF HARVEST VOLUME: 172 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



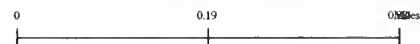
CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

C CABLE

MAP SCALE 1:12000



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3062	VCU: 292
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is western hemlock-Alaska cedar/blueberry and mixed conifer/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Consider seed tree cut for cedar regen, Protect regeneration where possible.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Soils concerns, harvest restricted to less than 75% slope, partial suspension.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Bad areas have been deleted; recommend partial suspension to protect soils.</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

VCU: 292 UNIT NUMBER: 3063 QUAD(s): SITB5NE
 ACRES: 7 VOLUME: 177 MBF HARVEST VOLUME: 168 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.

200 FT CONTOUR INTERVAL

SETTING BOUNDARY

UNIT BOUNDARY

ADJACENT UNIT

NEW SPEC. ROAD

TEMPORARY ROAD

EXISTING SPEC. ROAD

SHORELINE

CLASS III STREAM

MAP SCALE 1:12000

LOGGING SYSTEMS:

C CABLE

PHOTO POINT

EAGLE TREE

EXISTING CLEARCUTS

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

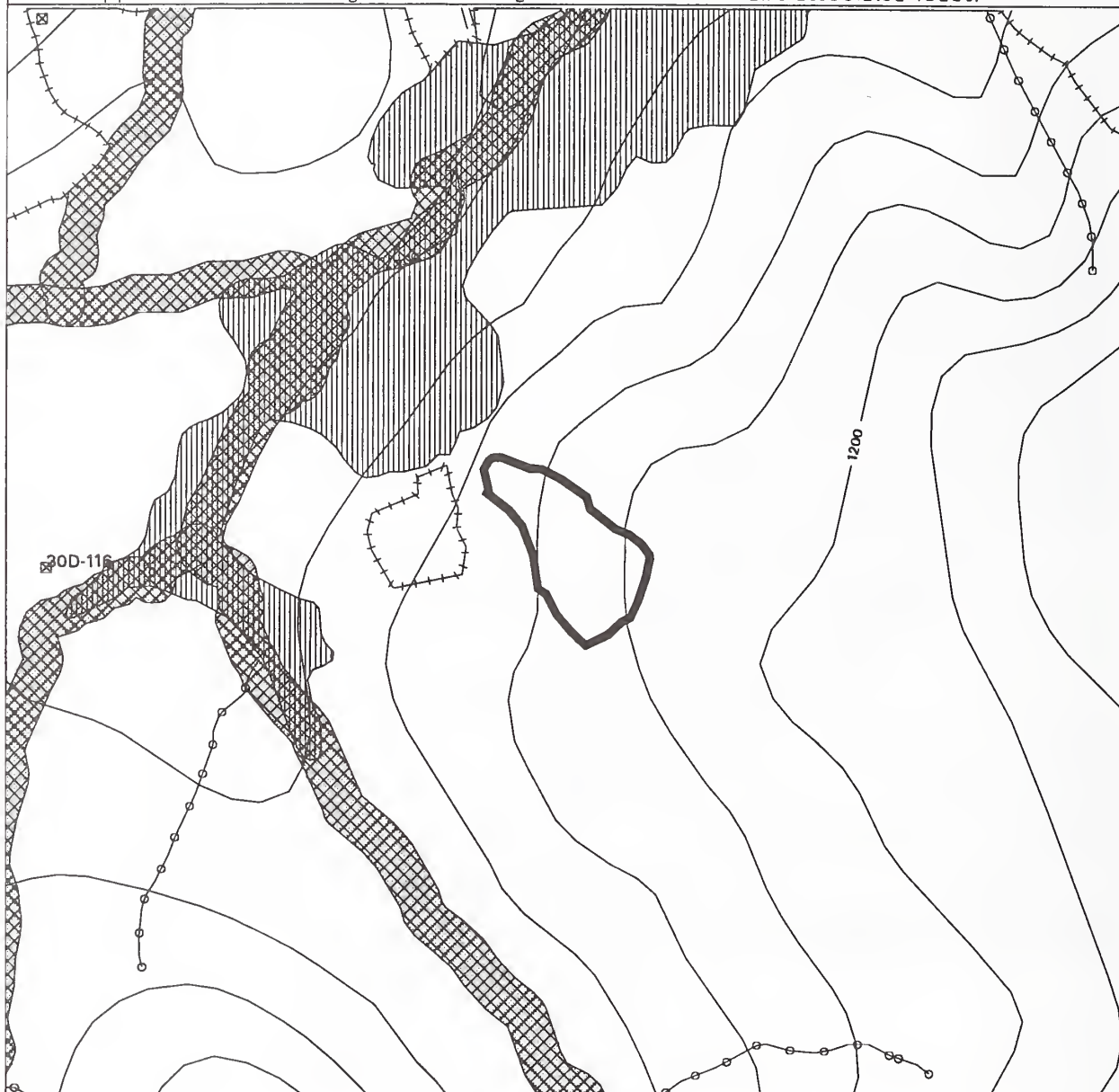
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3063	VCU: 292
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is western hemlock-Alaska cedar/blueberry and mixed conifer/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Protect regeneration where possible, Clearcut with reserves. Consider planting cedar.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Soils concerns. No profiles run.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Some small areas that are wet or oversteepened or unstable are present; recommend full suspension to protect soils.	
{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3111 QUAD(s): SITB5NE
 ACRES: 12 VOLUME: 303 MBF HARVEST VOLUME: 257 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

H HELICOPTER



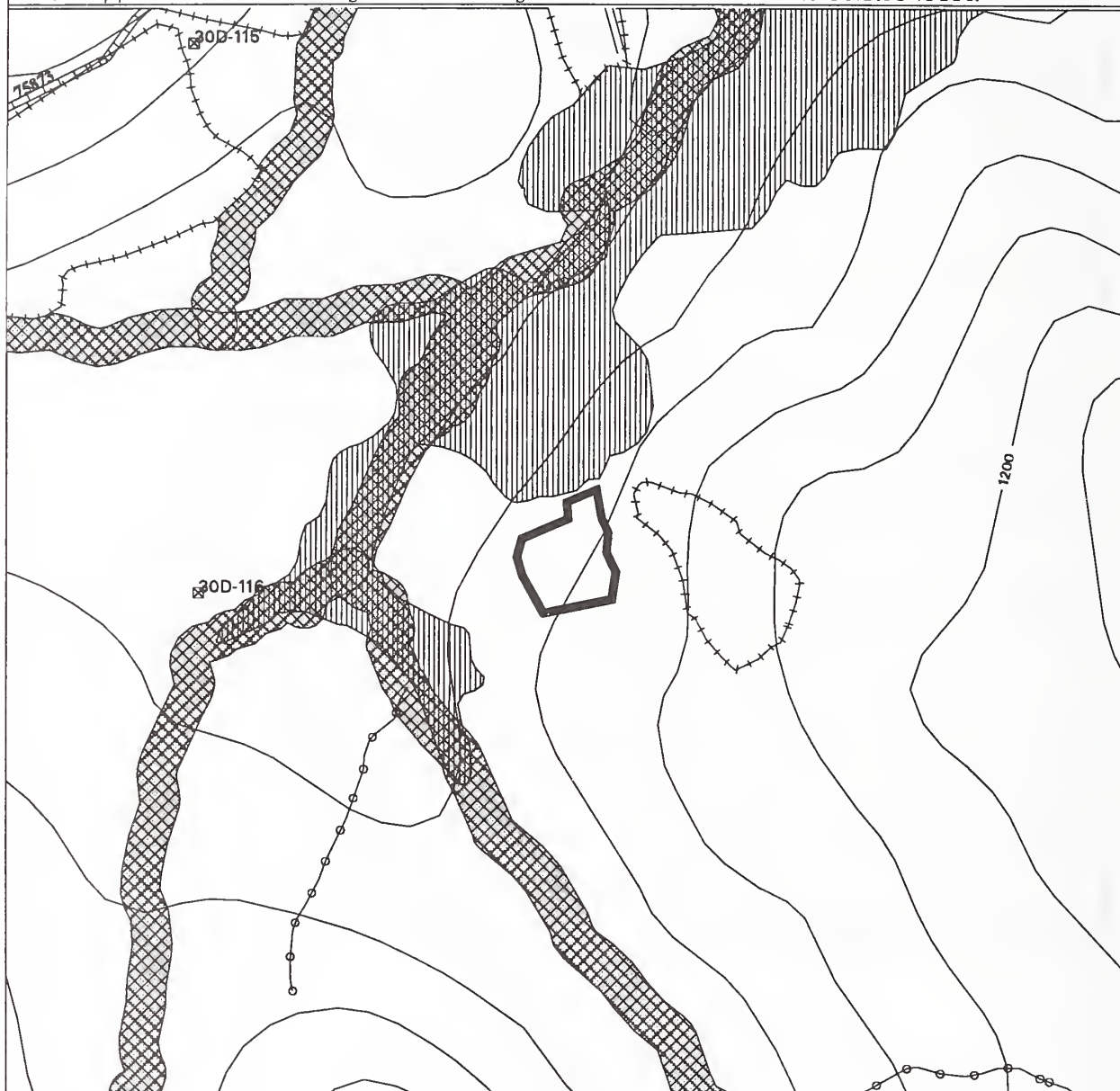
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3111	VCU: 292
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is mixed conifer/blueberry and western hemlock-Alaska cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Consider seed tree cut for cedar regen, Protect soils where possible.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. No road access planned.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Small areas of oversteepened or unstable soils are present; soils will be protected by full suspension provided by helicopter logging.</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No fisheries concerns.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Possible goshawk response in area, 1994. Possible forage area but probably not nesting area. Recommend leaving snags where possible</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3112 QUAD(s): SITB5NE
 ACRES: 6 VOLUME: 151 MBF HARVEST VOLUME: 129 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY	
UNIT BOUNDARY	
ADJACENT UNIT	
NEW SPEC. ROAD	
TEMPORARY ROAD	
EXISTING SPEC. ROAD	
SHORELINE	
CLASS III STREAM	

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

H HELICOPTER



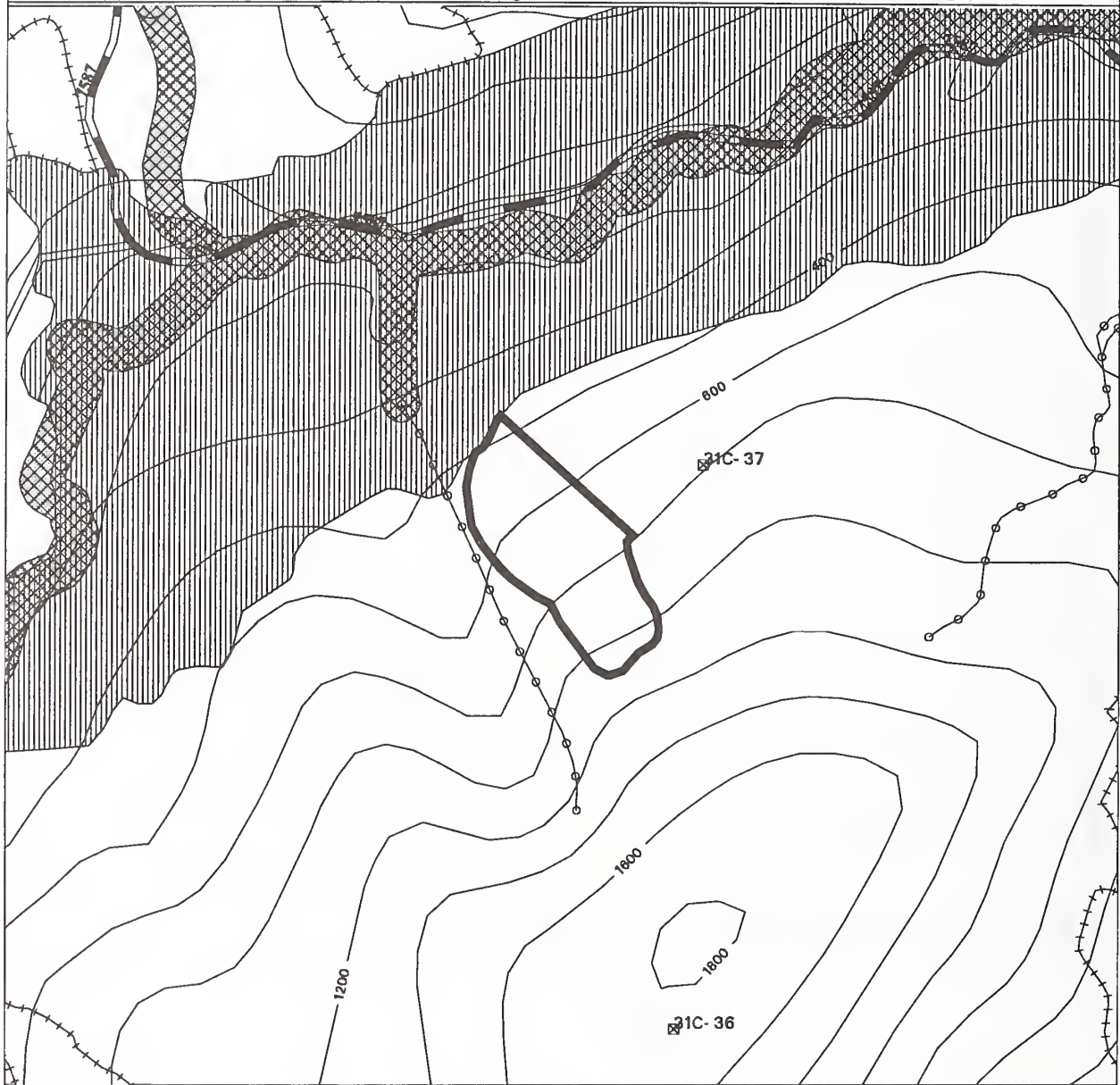
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3112	VCU: 292
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Consider seed tree cut for cedar regen, Protect soils where possible.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. No road access planned.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist REMARKS: See Fisheries remarks. Unstable areas have been deleted; unit looks OK.</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist. REMARKS: Potential mass soil movement to Adams Creek. Recent large slide and two older slumps in surrounding area. Large v-notches should be protected as per BMP 13.3, category "B," and BMP 13.5.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Possible goshawk response in area, 1994. Possible forage area but probably not nesting area. Recommend leaving snags where possible</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3132 QUAD(s): SITB5NE
 ACRES: 20 VOLUME: 587 MBF HARVEST VOLUME: 117 MBF
 HARVEST PRESCRIPTION: Group Selection PERCENT VOLUME HARVESTED: 20

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL

0 0.19 0.38 Miles

MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



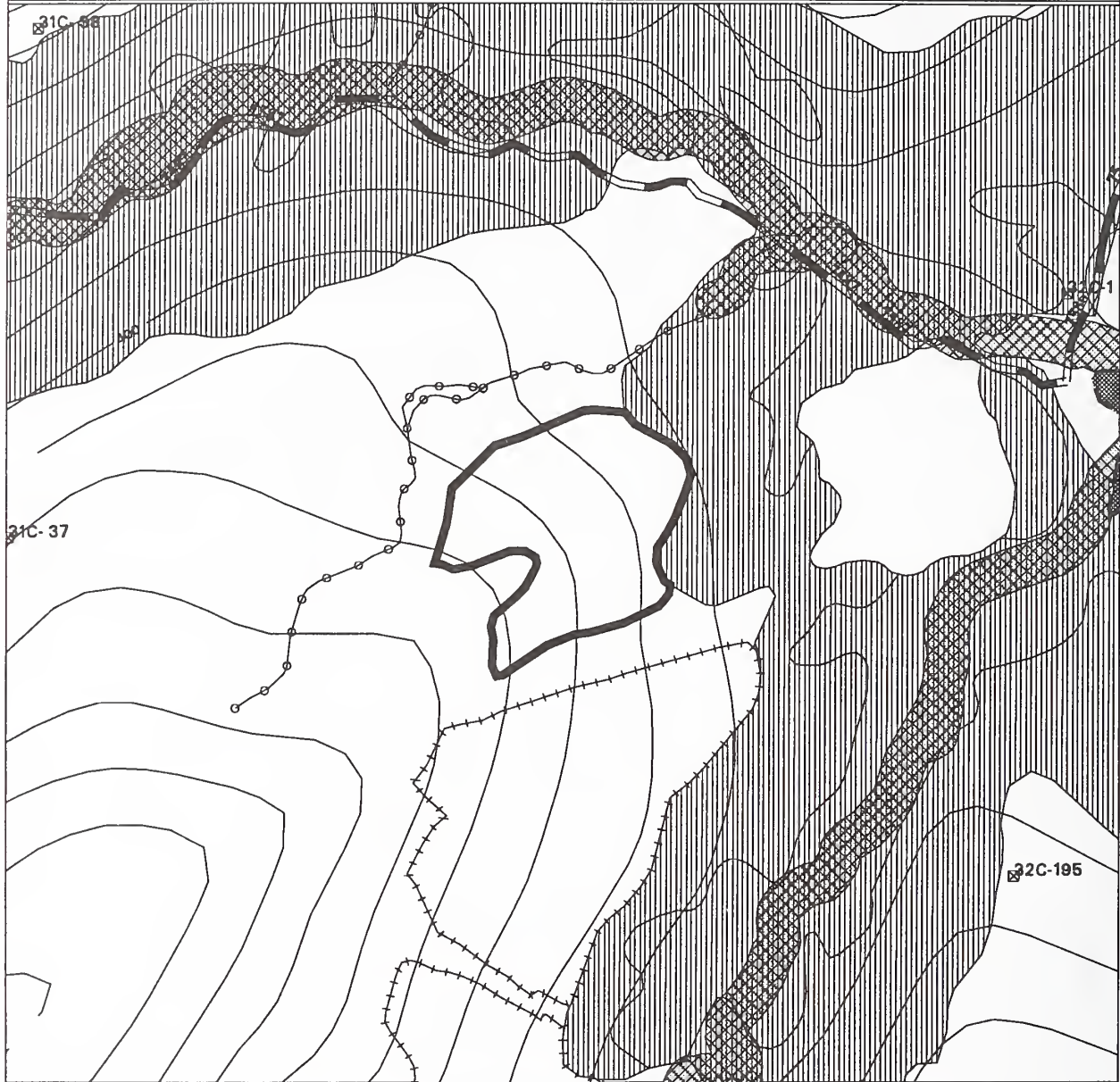
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3132	VCU: 292
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is western hemlock/blueberry on lower slopes and mountain hemlock/blueberry on upper slopes, Silvicultural diagnosis for treatment is high canopy retention, Consider group selection, Protect soils where possible.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. No road access planned.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None needed REMARKS: Bad part of unit was deleted; full suspension will be provided by helicopter logging.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: HC6, Class III stream on west side boundary should be protected per BMP 13.3, category "B." The HC6 v-notch is mapped as extreme soil mass movement hazard. A portion of unit 3132 is within the extreme hazard zone. Place side boundary at or above the slope break of the HC6 channel. The east side boundary is adjacent to an unmapped Class III stream. The area has a high soil mass movement hazard. As with the HC6 channel, this channel flows directly into class I fish habitat in Adams Creek. Place east boundary at or above the slope break of the stream, and protect per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Where possible maintain wildlife travel corridor across unit. Unit is within 1500 feet of known mountain goat habitat. If mountain goats are present within 1500 feet of unit, helicopter yarding should be avoided from May 15 through June 15 (kidding season).</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3141 QUAD(s): SITB5NE
 ACRES: 32 VOLUME: 945 MBF HARVEST VOLUME: 803 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY	
UNIT BOUNDARY	
ADJACENT UNIT	
NEW SPEC. ROAD	
TEMPORARY ROAD	
EXISTING SPEC. ROAD	
SHORELINE	
CLASS III STREAM	

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT	
EAGLE TREE	
EXISTING CLEARCUTS	
SALTWATER AND LAKES	
CLASS I & II STREAM BUFFER	

LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3141

VCU: 292

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Consider seed tree cut for cedar regen. in lower part of unit, Buffer major v-notches in unit.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Helicopter yarding required. No road access planned.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Small areas of unstable or wet soil are present; soils will be protected by full suspension provided by helicopter logging.

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Mark the HC6 channel on the north boundary, and an unmapped channel that bisects the center of the unit, in orange/white flagging. Protect as per BMP 13.3, category "B."

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: High habitat value. Recommend leaving snags where possible. Eagle nest trees 12325013 and 12325091 are potentially within 1/4 mile of the helicopter yarding path for this unit. If the helicopter yarding path must occur within 1/4 mile of a eagle nest tree, helicopter yarding should be avoided from March 1 through May 31, and if the nest is active, helicopter yarding should be avoided from May 31 through August 31, per Interagency Agreement with the USF&WS. Unit is within 1500 feet of known mountain goat habitat. If mountain goats are present within 1500 feet of unit, helicopter yarding should be avoided from May 15 through June 15 (kidding season).

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Unit as planned does not meet VQO, Adjust boundary to reduce apparent size, screen harvested ground and replicate natural openings.

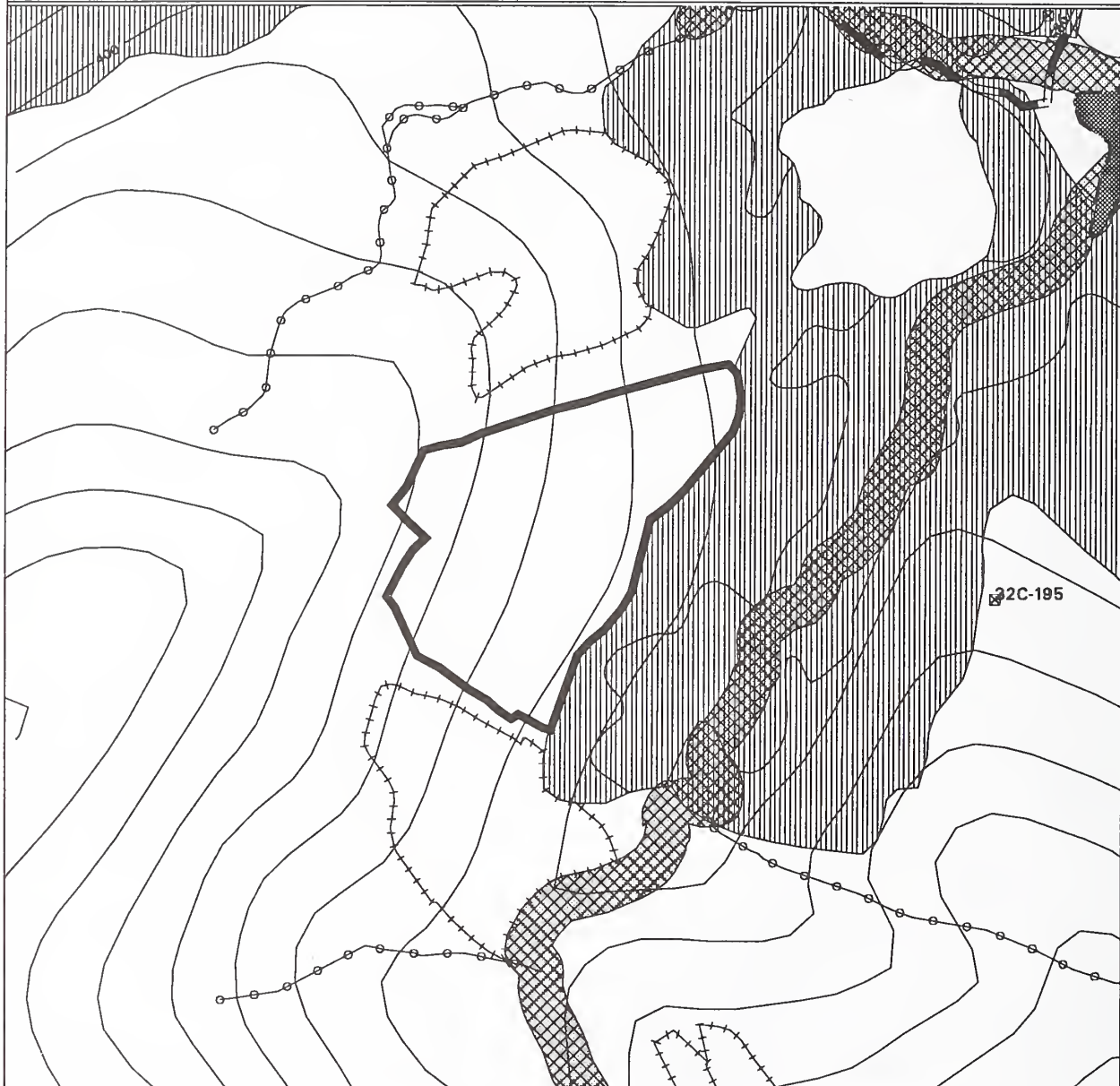
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3142 QUAD(s): SITB5NE
 ACRES: 54 VOLUME: 1601 MBF HARVEST VOLUME: 1121 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 70

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

H HELICOPTER



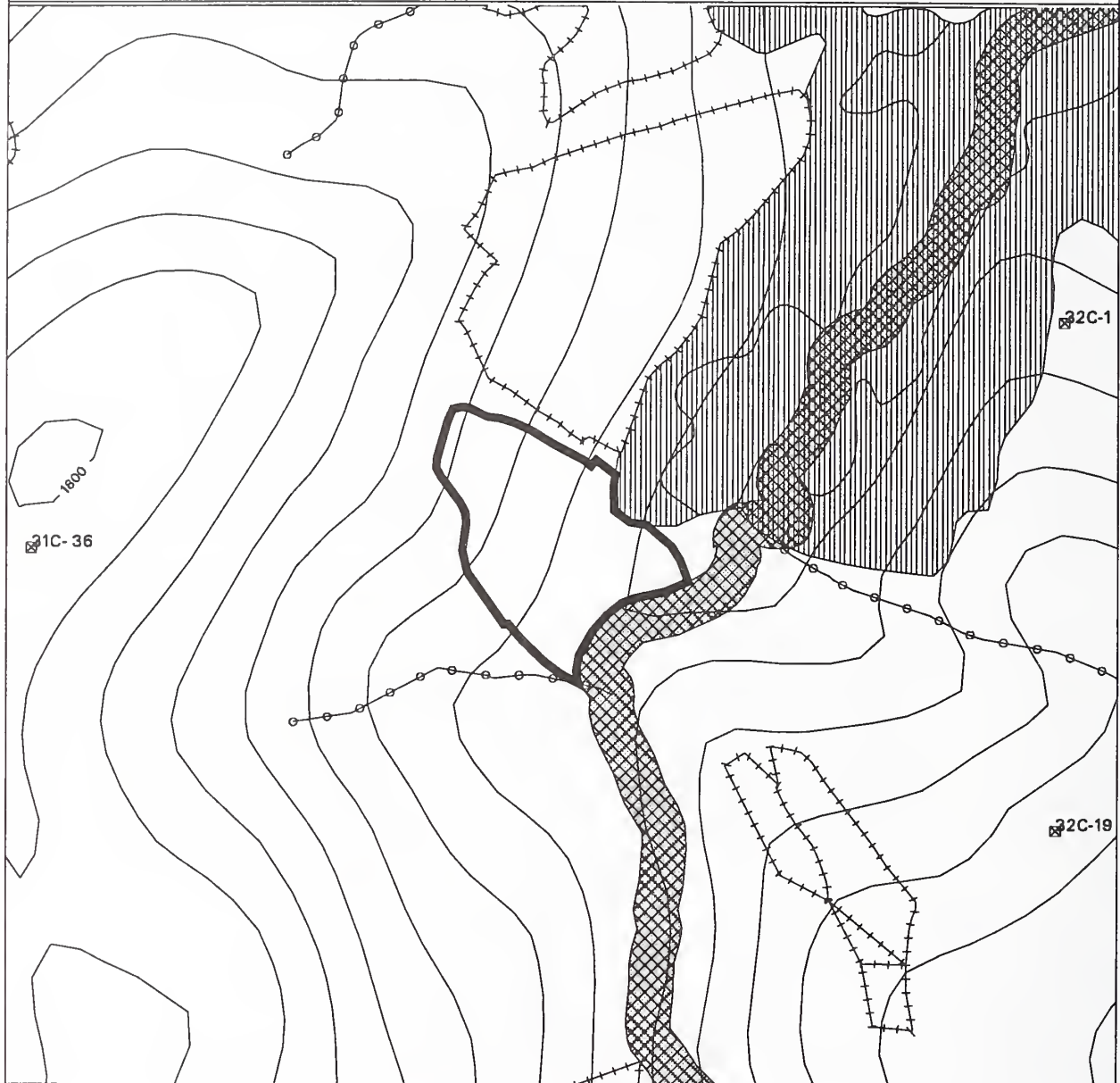
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3142	VCU: 292
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry and Western hemlock/blueberry. Silvicultural diagnosis for treatment is low canopy retention. Protect soils. Consider replanting, Consider overstory removal.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. No road access planned. Soils concerns.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit is dissected and contains oversteepened slopes; recommend directional falling away from v-notches; recommend slopes steeper than 75 percent not be disturbed by logging.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unmapped class III, HC6 channel along south boundary should be protected as per BMP 13.3, category "B." The boundary should be placed at or above the slope break</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High habitat value. Recommend leaving snags where possible. Eagle nest trees 12325013 and 12325091 are potentially within 1/4 mile of the helicopter yarding path for this unit. If the helicopter yarding path must occur within 1/4 mile of a eagle nest tree, helicopter yarding should be avoided from March 1 through May 31, and if the nest is active, helicopter yarding should be avoided from May 31 through August 31, per Interagency Agreement with the USF&WS. Unit is within 1500 feet of known mountain goat habitat. If mountain goats are present within 1500 feet of unit, helicopter yarding should be avoided from May 15 through June 15 (kidding season).</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3143 QUAD(s): SITB5NE
 ACRES: 28 VOLUME: 794 MBF HARVEST VOLUME: 556 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 70

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM
 CLASS I & II STREAM BUFFER

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

H HELICOPTER



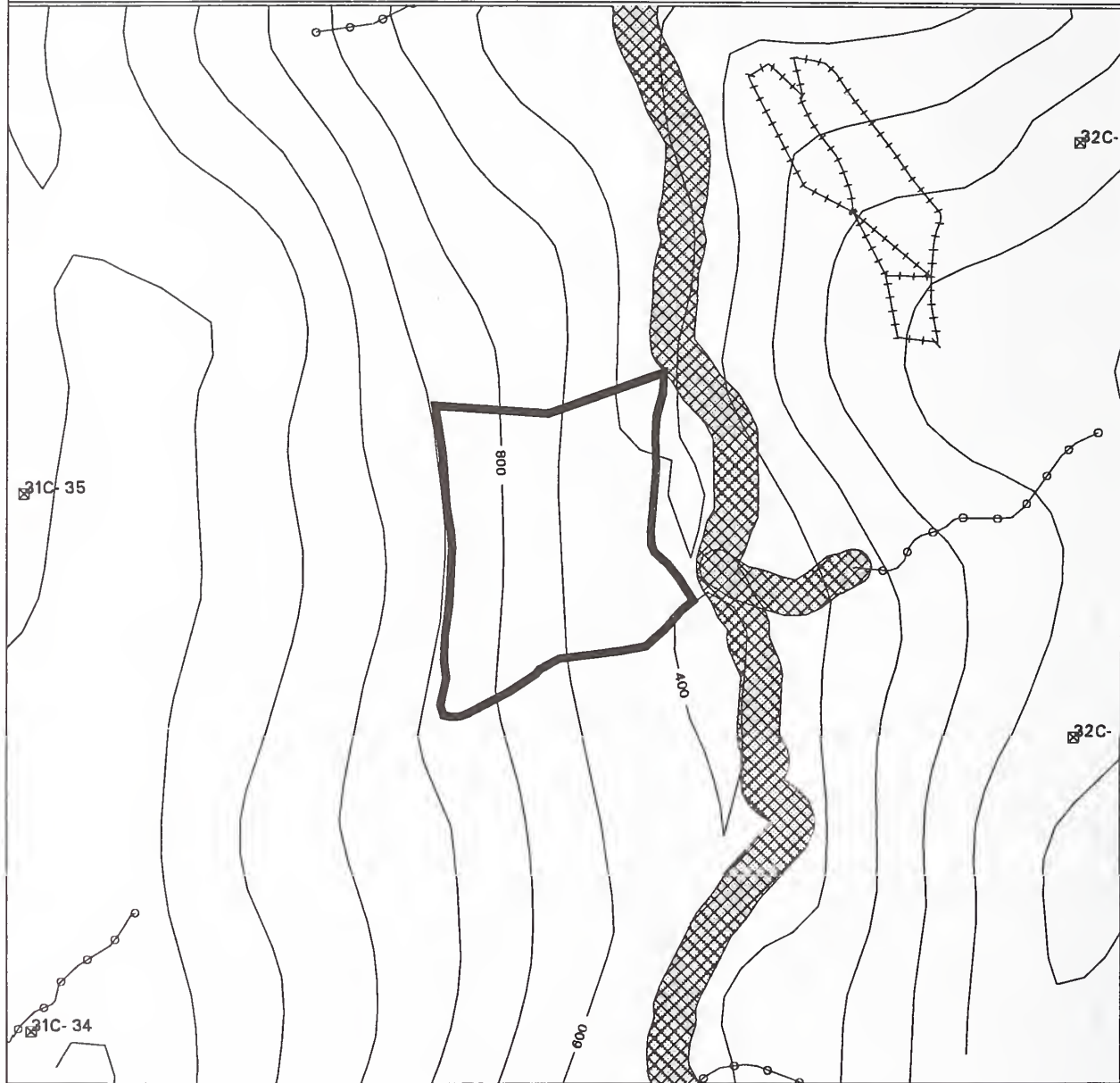
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3143	VCU: 292
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis is low canopy retention, Consider replanting, Consider overstory removal.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. No road access planned. Soils concerns.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit contains v-notches and oversteepened areas; recommend directional falling away from notches; recommend slopes steeper than 75 percent not be logged.</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist and Soil Scientist REMARKS: Place north boundary at or above the slope break of unmapped, class III, HC6 channel. Protect channel as per BMP 13.3, category "B." Class I, LC2 channel at base of unit (SE boundary) will need an extended buffer due to extreme soil mass movement hazard. Boundary should be located on stable soils, above the slope break. Protect LC2 channel as per BMP 12.6a and 12.6. An HC6 channel located on the south boundary is Class II for several hundred feet above the LC2 channel. This area is also adjacent to the extreme soils hazard and should receive an extended buffer as per BMP's 12.6a, 12.6, and 13.3, category "A", or deleted (BMP 13.5). The class III portion of the HC6 channel should be protected as per BMP 13.3, category "B", and the boundary placed above the slope break, or as designated by the soil scientist. An unmapped, class III channel that bisects the unit should be marked in orange/white flagging and protect per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High habitat value. Recommend leaving snags where possible. Eagle nest trees 12325013 and 12325091 are potentially within 1/4 mile of the helicopter yarding path for this unit. If the helicopter yarding path must occur within 1/4 mile of a eagle nest tree, helicopter yarding should be avoided from March 1 through May 31, and if the nest is active, helicopter yarding should be avoided from May 31 through August 31, per Interagency Agreement with the USF&WS. Unit is within 1500 feet of known mountain goat habitat. If mountain goats are present within 1500 feet of unit, helicopter yarding should be avoided from May 15 through June 15 (kidding season).</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3151 QUAD(s): SITB5NE
 ACRES: 46 VOLUME: 1248 MBF HARVEST VOLUME: 1061 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

H HELICOPTER



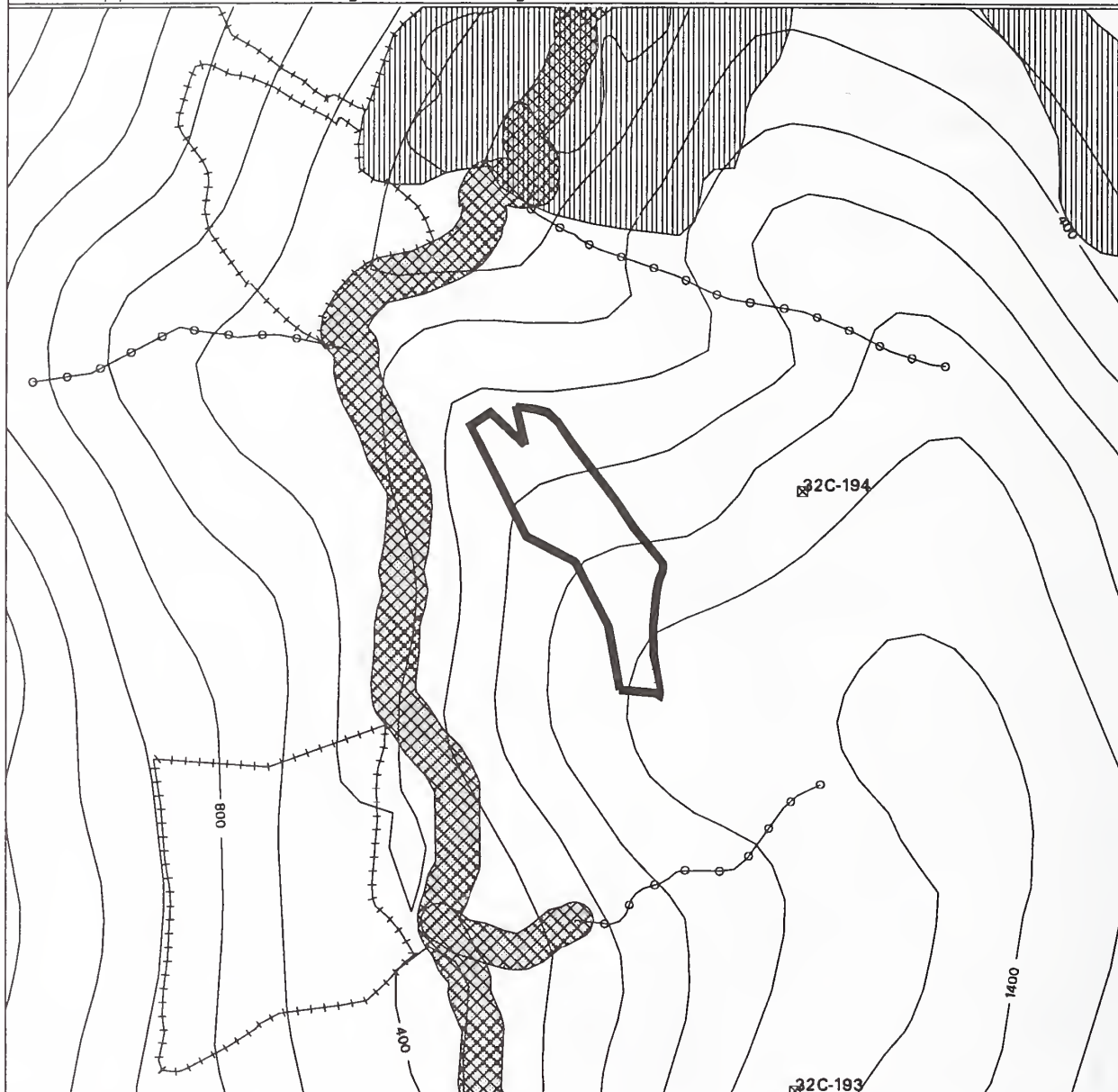
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3151	VCU: 292
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is western hemlock/blueberry on lower slopes and mountain hemlock-Sitka spruce/blueberry on upper slopes, Silvicultural diagnosis for treatment is low canopy retention, Consider seed tree cut for spruce regen, Protect v-notches to extent possible.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. No road access planned. Buffer stream. Feather N edge for windfirmness.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Oversteep and unstable areas have been deleted; recommend directional falling away from v-notches; soils will be protected by full suspension provided by helicopter logging.</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist to review TTRA buffer. REMARKS: Class II, MM2 channel at base of unit should be protected as per BMP 12.6a and 12.6. Unmapped class III channel on south boundary should be protected as per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High habitat value. Recommend leaving snags where possible. Eagle nest trees 12325013 and 12325091 are potentially within 1/4 mile of the helicopter yarding path for this unit. If the helicopter yarding path must occur within 1/4 mile of a eagle nest tree, helicopter yarding should be avoided from March 1 through May 31, and if the nest is active, helicopter yarding should be avoided from May 31 through August 31, per Interagency Agreement with the USF&WS. Unit is within 1500 feet of known mountain goat habitat. If mountain goats are present within 1500 feet of unit, helicopter yarding should be avoided from May 15 through June 15 (kidding season).</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

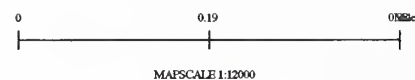
VCU: 292 UNIT NUMBER: 3201 QUAD(s): SITB5NE
 ACRES: 17 VOLUME: 462 MBF HARVEST VOLUME: 370 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 80

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

- | | |
|---------------------|--|
| SETTING BOUNDARY | |
| UNIT BOUNDARY | |
| ADJACENT UNIT | |
| NEW SPEC. ROAD | |
| TEMPORARY ROAD | |
| EXISTING SPEC. ROAD | |
| SHORELINE | |
| CLASS III STREAM | |



LOGGING SYSTEMS:

H HELICOPTER

- | | |
|----------------------------|--|
| PHOTO POINT | |
| EAGLE TREE | |
| EXISTING CLEARCUTS | |
| SALTWATER AND LAKES | |
| CLASS I & II STREAM BUFFER | |



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3201

VCU: 292

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Western hemlock/blueberry and Western hemlock/blueberry-devil's club, Silvicultural diagnosis for treatment is medium canopy retention, Consider overstory removal.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Helicopter yarding required. No road access planned.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist
 REMARKS: The worst areas have been deleted from the unit; the remaining small, oversteepened areas will be protected by full suspension provided by helicopter logging. See Fisheries Comments.

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist
 REMARKS: No fisheries concerns.

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend leaving snags where possible. Eagle nest trees 12325013 and 12325091 are potentially within 1/4 mile of the helicopter yarding path for this unit. If the helicopter yarding path must occur within 1/4 mile of a eagle nest tree, helicopter yarding should be avoided from March 1 through May 31, and if the nest is active, helicopter yarding should be avoided from May 31 through August 31, per Interagency Agreement with the USF&WS.

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

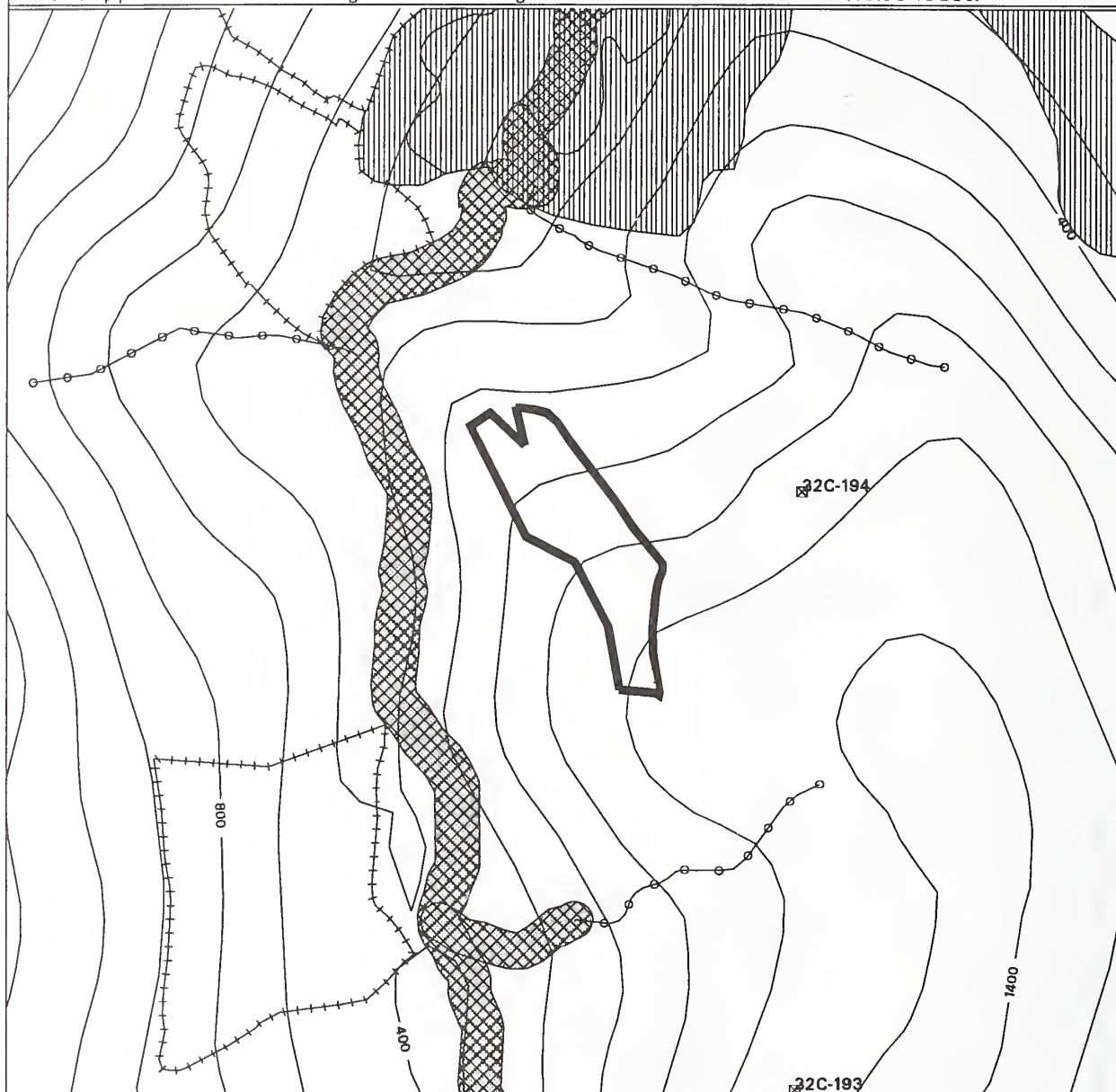
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3201 QUAD(s): SITB5NE
 ACRES: 17 VOLUME: 462 MBF HARVEST VOLUME: 370 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 80

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL

0 0.19 0.38 Miles

MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



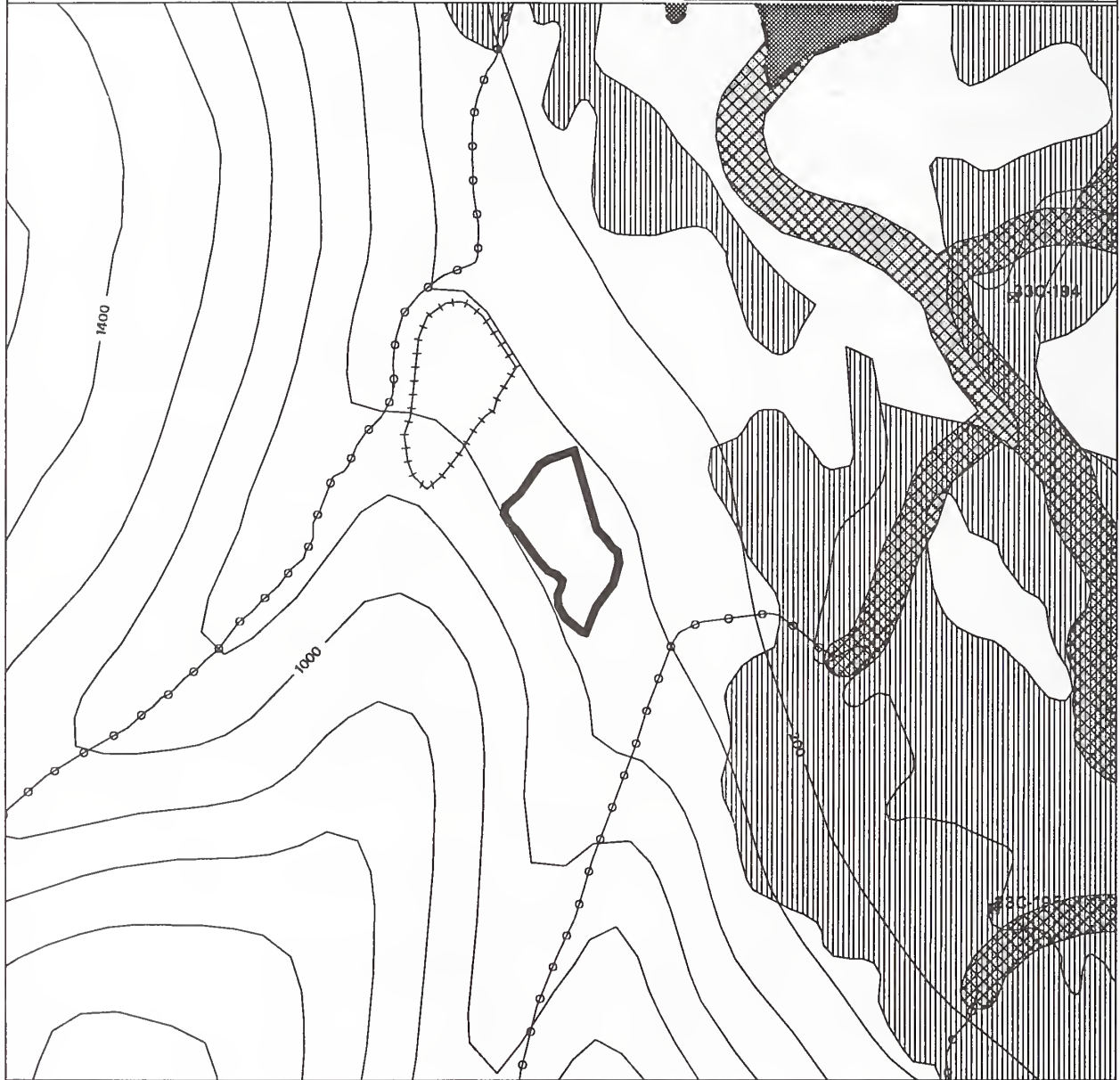
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3201	VCU: 292
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry and Western hemlock/blueberry-devil's club, Silvicultural diagnosis for treatment is medium canopy retention, Consider overstory removal.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. No road access planned.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist REMARKS: The worst areas have been deleted from the unit; the remaining small, oversteepened areas will be protected by full suspension provided by helicopter logging. See Fisheries Comments.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist REMARKS: No fisheries concerns.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible. Eagle nest trees 12325013 and 12325091 are potentially within 1/4 mile of the helicopter yarding path for this unit. If the helicopter yarding path must occur within 1/4 mile of a eagle nest tree, helicopter yarding should be avoided from March 1 through May 31, and if the nest is active, helicopter yarding should be avoided from May 31 through August 31, per Interagency Agreement with the USF&WS.</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3223 QUAD(s): SITB5NE
 ACRES: 8 VOLUME: 234 MBF HARVEST VOLUME: 211 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 90

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM

0 0.19 0.38
 MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3223	VCU: 292
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is medium canopy retention, Consider overstory removal to protect/release understory, Protect soils where possible.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. No road access planned.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Small oversteepened or unstable or wet areas are located in the unit; they will be protected by full suspension provided by helicopter logging</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Class III, HC6 channel along the east boundary should be protected as per BMP 13.3, category "B." The boundary should be placed at or above the slope break. Maintain the west boundary at or above the slope break into the branched v-notch.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible. Eagle nest tree 12325092 is potentially within 1/4 mile of the helicopter yarding path for this unit. If the helicopter yarding path must occur within 1/4 mile of a eagle nest tree, helicopter yarding should be avoided from March 1 through May 31, and if the nest is active, helicopter yarding should be avoided from May 31 through August 31, per Interagency Agreement with the USF&WS.</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3224 QUAD(s): SITB5NE
 ACRES: 10 VOLUME: 252 MBF HARVEST VOLUME: 240 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL

0 0.19 0.38 Miles

MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



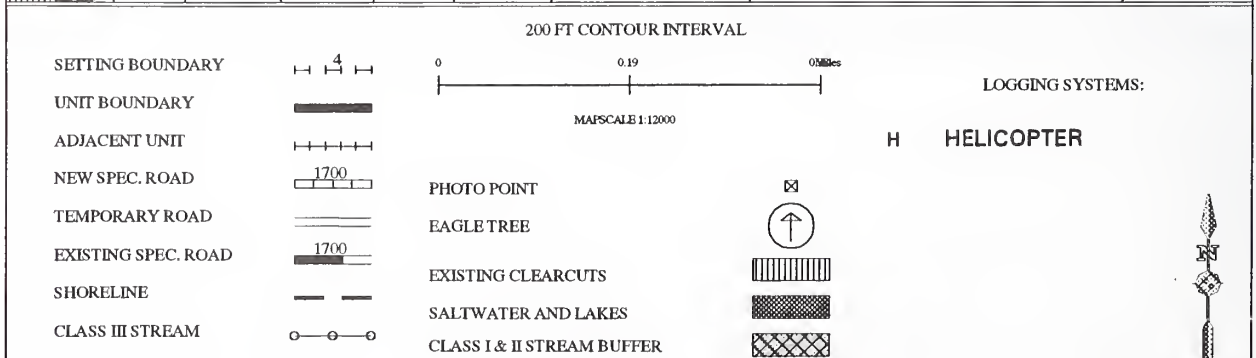
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3224	VCU: 292
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves, Protect soils where possible.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. No road access planned.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit contains some wet areas; helicopter logging will provide full suspension which will minimize soils impacts.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Class III, HC6 channel along the west boundary should be protected as per BMP 13.3, category "B." The boundary should be placed at or above the slope break. Maintain the east boundary at or above the slope break into the branched v-notch.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible and leaving reserve trees near edge of unit. Eagle nest tree 12325092 is potentially within 1/4 mile of the helicopter yarding path for this unit. If the helicopter yarding path must occur within 1/4 mile of a eagle nest tree, helicopter yarding should be avoided from March 1 through May 31, and if the nest is active, helicopter yarding should be avoided from May 31 through August 31, per Interagency Agreement with the USF&WS</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3281 QUAD(s): SITB5NE
 ACRES: 25 VOLUME: 631 MBF HARVEST VOLUME: 442 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 70

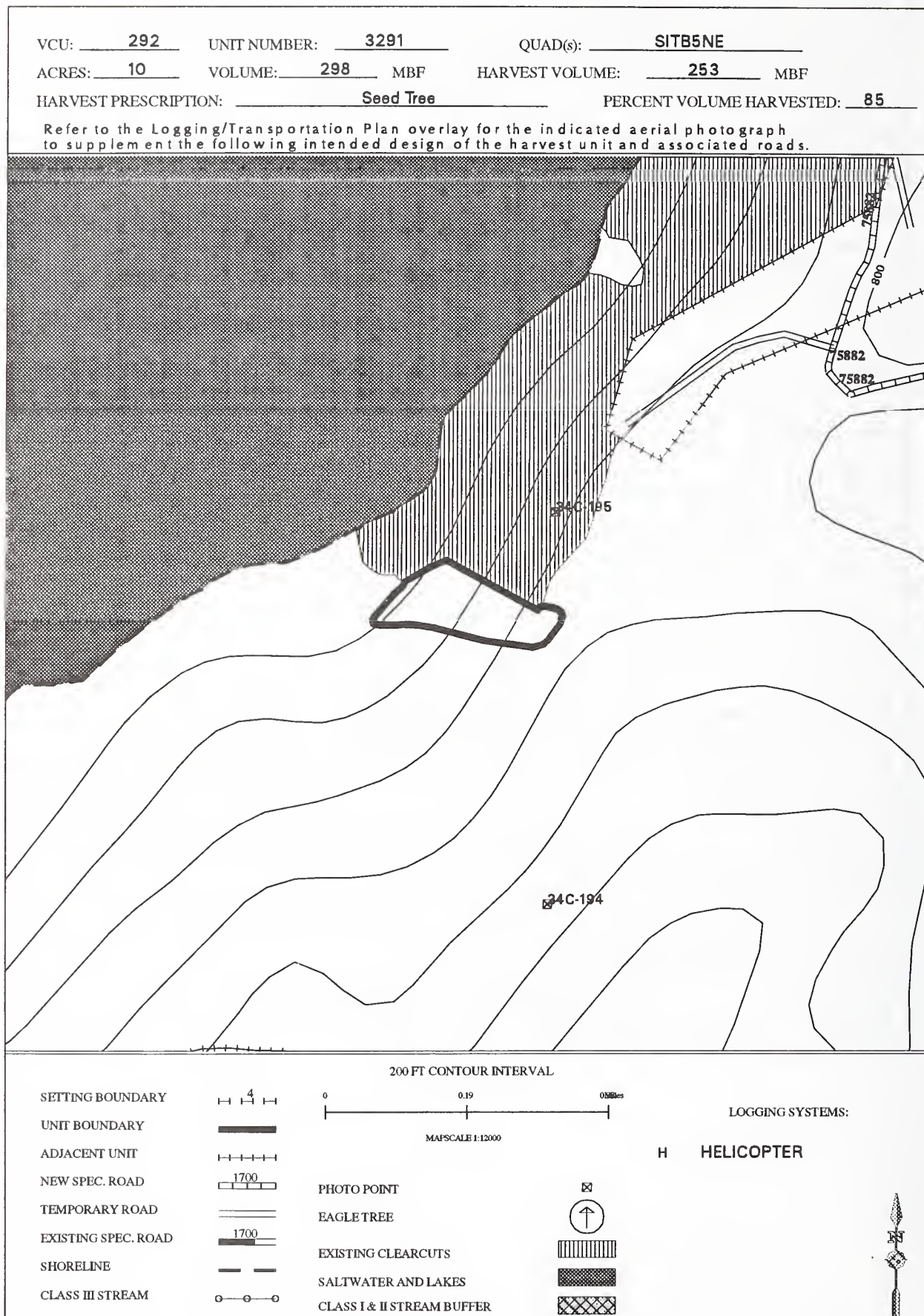
Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3281	VCU: 292
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is mixed conifer/blueberry, Silvicultural diagnosis for treatment is medium canopy retention, Consider overstory removal to protect soils and maintain stability.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. No road access planned. Soils concerns.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit contains some oversteepened areas, wet areas, and v-notches; recommend directional falling away from notches; recommend shallow rocky areas be protected from harvest; helicopter logging will provided full suspension over remaining areas which will protect soils.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: The north boundary borders an unmapped HC6, class III stream channel. Another unmapped stream bisects the southern third of the unit, then flows along the proposed west boundary. These two streams should be protected as per BMP 13.3, category "B."	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible. Unit is within 1500 feet of known mountain goat habitat. If mountain goats are present within 1500 feet of unit, helicopter yarding should be avoided from May 15 through June 15 (kidding season).	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3291	VCU: 292
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Consider seed tree cut for cedar regen, Consider replanting.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. No road access planned.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit contains v-notches; recommend directional falling away from notches; Soils will be protected by full suspension provided by helicopter logging.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	









NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3301 QUAD(s): SITB4NW/SITB5NE
 ACRES: 39 VOLUME: 1158 MBF HARVEST VOLUME: 984 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85






Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY 
 UNIT BOUNDARY 
 ADJACENT UNIT 
 NEW SPEC. ROAD 
 TEMPORARY ROAD 
 EXISTING SPEC. ROAD 
 SHORELINE 
 CLASS III STREAM 

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT 
 EAGLE TREE 
 EXISTING CLEARCUTS 
 SALTWATER AND LAKES 
 CLASS I & II STREAM BUFFER 

LOGGING SYSTEMS:

C CABLE



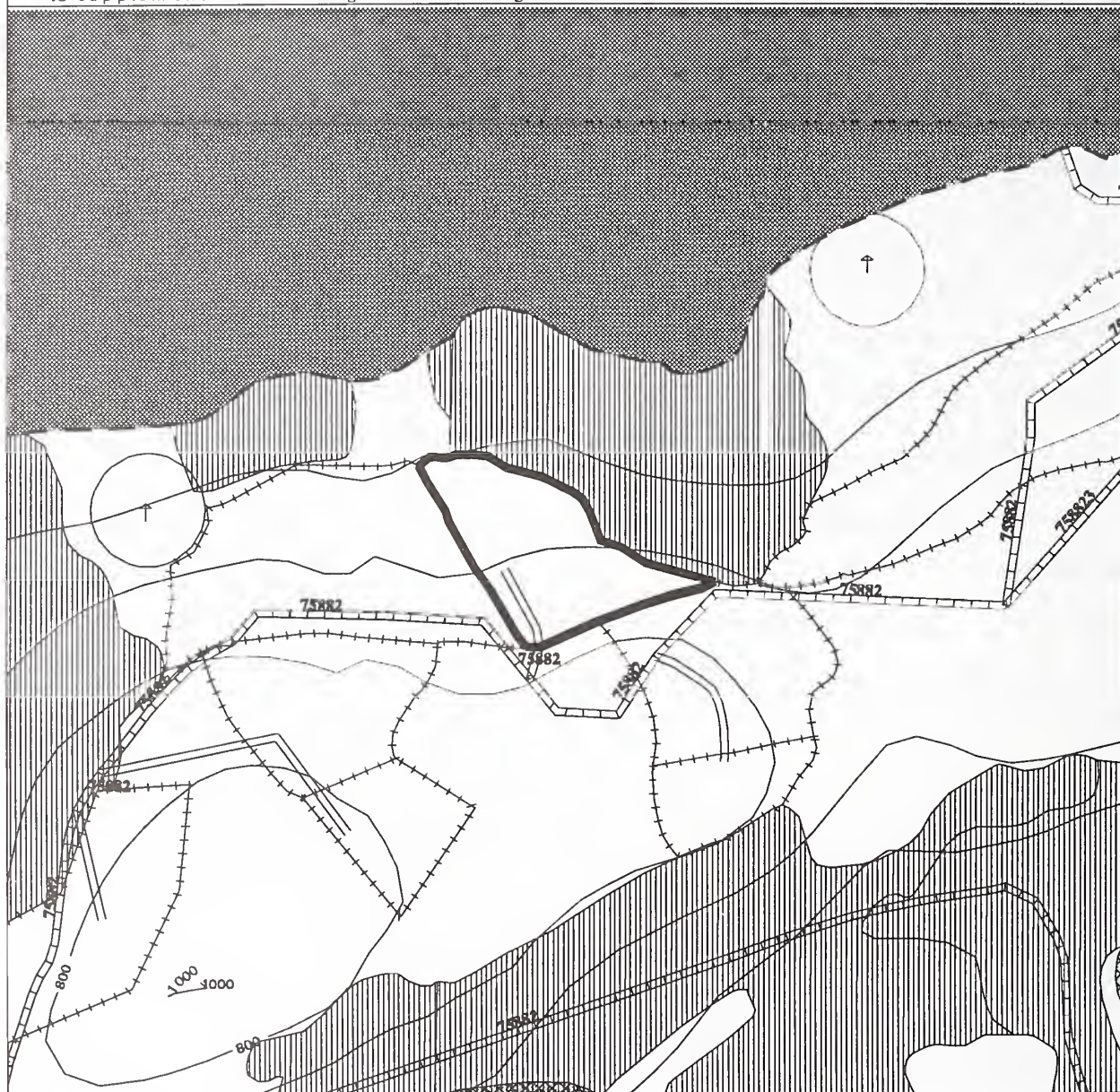
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3301	VCU: 292
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Consider seed tree cut for cedar regen, Buffer v-notch to the east.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Artificial anchors required on Landing 1. Partial suspension attained. Profiles run from Landing 1,2,3. 40 feet high tail trees needed. Landing 4 requires a Multispan System. Ensure 330 ft. Eagle tree buffer. Leave additional trees to feather edge to ensure windfirm eagle tree buffer.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit contains some wet soils and small slumps; recommend at least partial suspension to protect soils.</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Place the north unit boundary at or above the slope break of the unmapped HC6 channel. Two v-notches in the southern half of the unit should be marked in orange/white striped flagging and protected as per BMP 13.3, category "B." If both v-notches cannot be protected in this manner, protect the larger of the two with category "B", and the smaller with BMP 13.3, category "C", and require thorough logging slash removal prior to closeout.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Eagle tree in northwest corner needs buffer. High subsistence value. High habitat value. Recommend leaving snags where possible</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: Landscape Architect REMARKS: Unit as planned does not meet VQO. Feather boundary, use natural vegetation breaks on east and west edges to replicate muskeg openings to minimize blocky form.</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3302 QUAD(s): SITB4NW/SITB5NE
 ACRES: 20 VOLUME: 596 MBF HARVEST VOLUME: 507 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

C CABLE



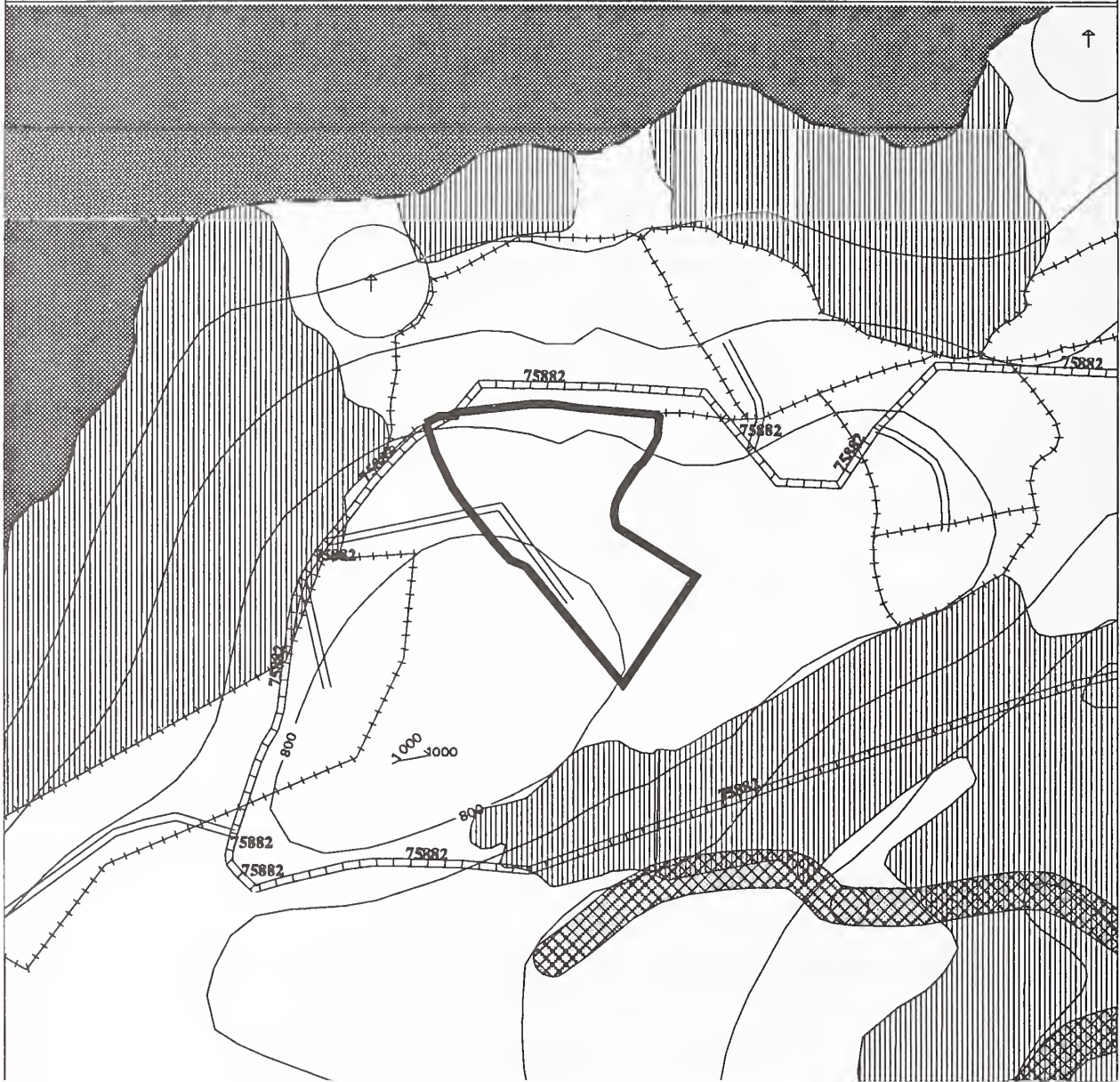
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3302	VCU: 292
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Consider seed tree cut for cedar regen, Buffer v-notch to west.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Profiles run from Landing 3. Partial suspension attained. 40 foot tail trees needed. Artificial anchors required.</p>	
<p>{ LANDS } FIELD REVIEWED: Yes RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit contains some wet soils and blowdown; recommend at least partial suspension to protect soils.</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Place the south unit boundary at or above the slope break of the unmapped HC6 channel.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. High habitat value. Recommend leaving snags where possible</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: Landscape Architect REMARKS: Unit as planned does not meet VQO. Feather boundary on west and south sides to assist in replicating natural openings.</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3303 QUAD(s): SITB4NW/SITB5NE
 ACRES: 30 VOLUME: 798 MBF HARVEST VOLUME: 679 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY	
UNIT BOUNDARY	
ADJACENT UNIT	
NEW SPEC. ROAD	
TEMPORARY ROAD	
EXISTING SPEC. ROAD	
SHORELINE	
CLASS III STREAM	

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

c CABLE



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3303

VCU: 292

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Western hemlock-yellow cedar/blueberry,
 Silvicultural diagnosis for treatment is low canopy retention, Consider seed
 tree cut for cedar regen.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Live Skyline. Full suspension required.

{ LANDS } FIELD REVIEWED: Yes RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: no concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend at least partial suspension to protect soils.

{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No concerns.

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: High subsistence value. High habitat value. Recommend leaving snags
 where possible

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
 SPECIALISTS NEEDED DURING LAYOUT: Landscape Architect
 REMARKS: Unit as planned does not meet VQO. Feather east boundary to replicate
 muskeg character to east.

{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3304 QUAD(s): SITB4NW
 ACRES: 32 VOLUME: 872 MBF HARVEST VOLUME: 741 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL

0 0.19 0.38 Miles

MAP SCALE 1:12000

LOGGING SYSTEMS:

C CABLE

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



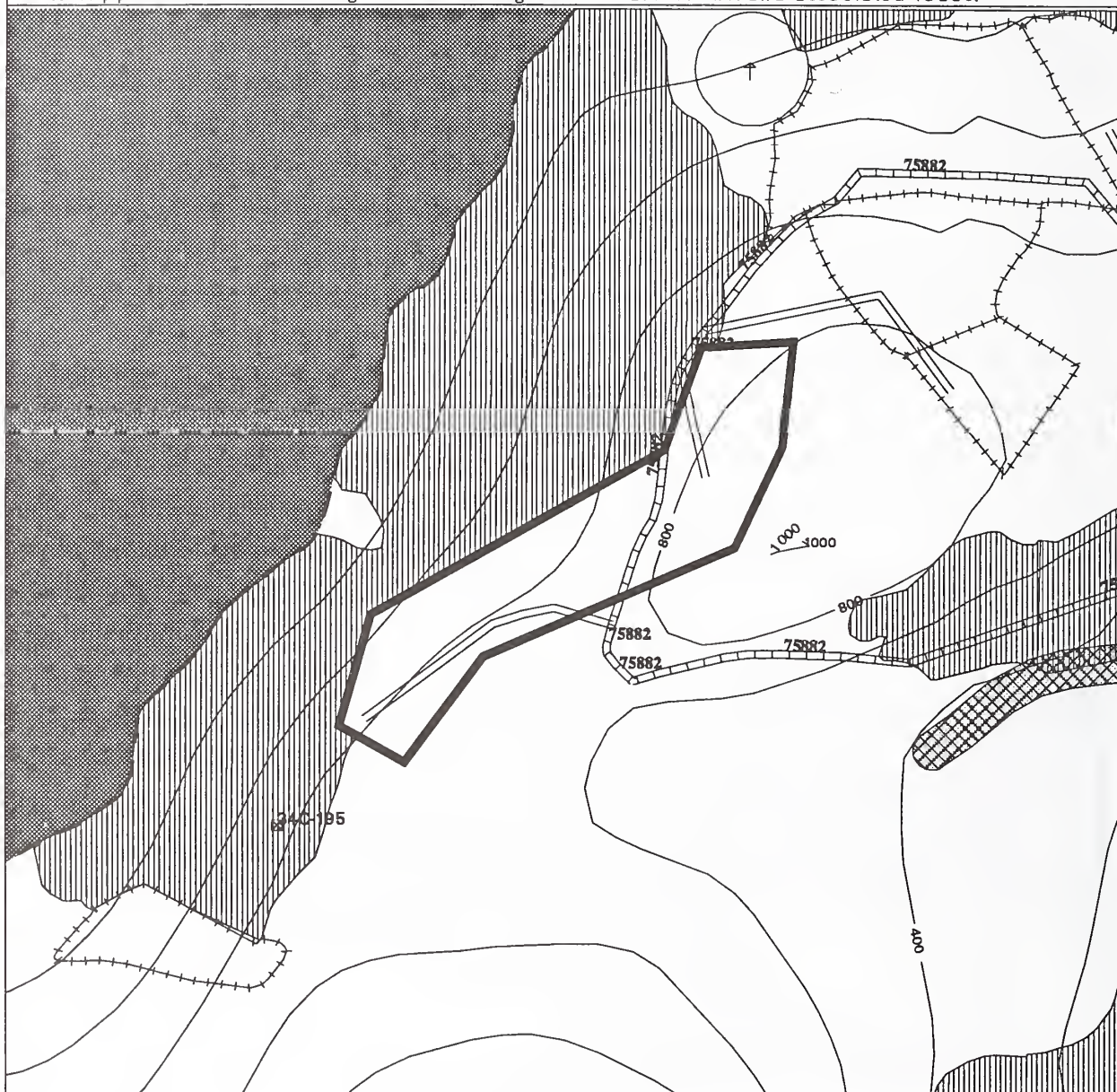
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3304	VCU: 292/293
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Consider seed tree cut for cedar regen, Protect soils where possible.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No profiles run.</p>	
<p>{ LANDS } FIELD REVIEWED: Yes RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: temporary road access to unit</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit contains some wet areas; recommend at least partial suspension to protect soils.</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Protect v-notch on north boundary with BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. High habitat value. Recommend leaving snags where possible</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit as planned does not meet VQO.</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	









NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3305 QUAD(S): SITB5NE
 ACRES: 46 VOLUME: 1230 MBF HARVEST VOLUME: 1168 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY 
 UNIT BOUNDARY 
 ADJACENT UNIT 
 NEW SPEC. ROAD 
 TEMPORARY ROAD 
 EXISTING SPEC. ROAD 
 SHORELINE 
 CLASS III STREAM 

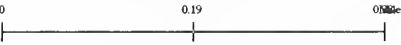






 MAP SCALE 1:12000

PHOTO POINT 
 EAGLE TREE 
 EXISTING CLEARCUTS 
 SALTWATER AND LAKES 
 CLASS I & II STREAM BUFFER 

LOGGING SYSTEMS:

C CABLE



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3305

VCU: 292

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Western Hemlock-Blueberry. Silvicultural diagnosis for treatment is clearcut with reserves. Locate landings at the slope break in unit. Partial suspension recommended.

{ TIMBER } FIELD REVIEWED: No RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Live Skyline.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Unit contains some wet areas; recommend at least partial suspension.

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: None Provided

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend leaving snags where possible and leaving reserve trees near edge of unit

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

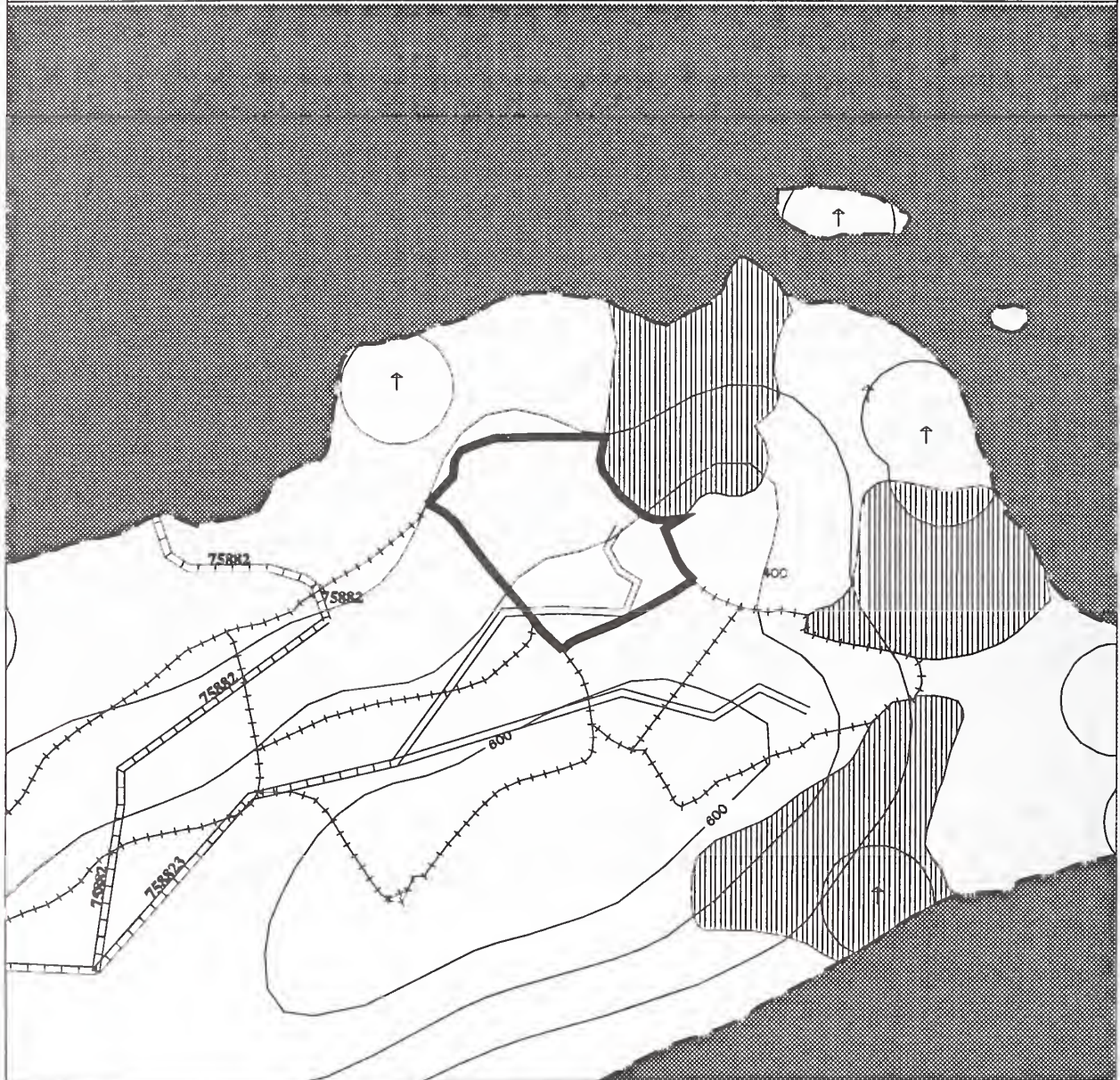
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3311 QUAD(s): SITB4NW
 ACRES: 26 VOLUME: 748 MBF HARVEST VOLUME: 710 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



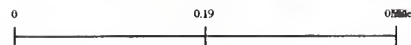
SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL



MAP SCALE 1:12000

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

C CABLE



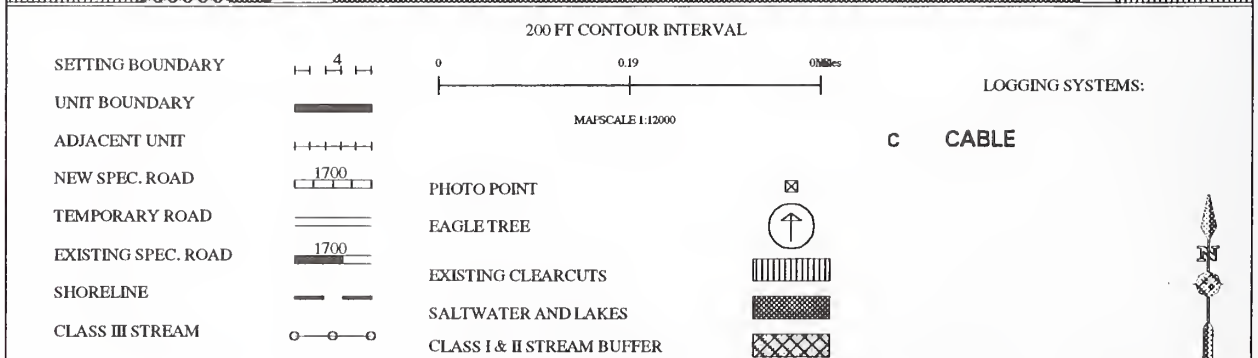
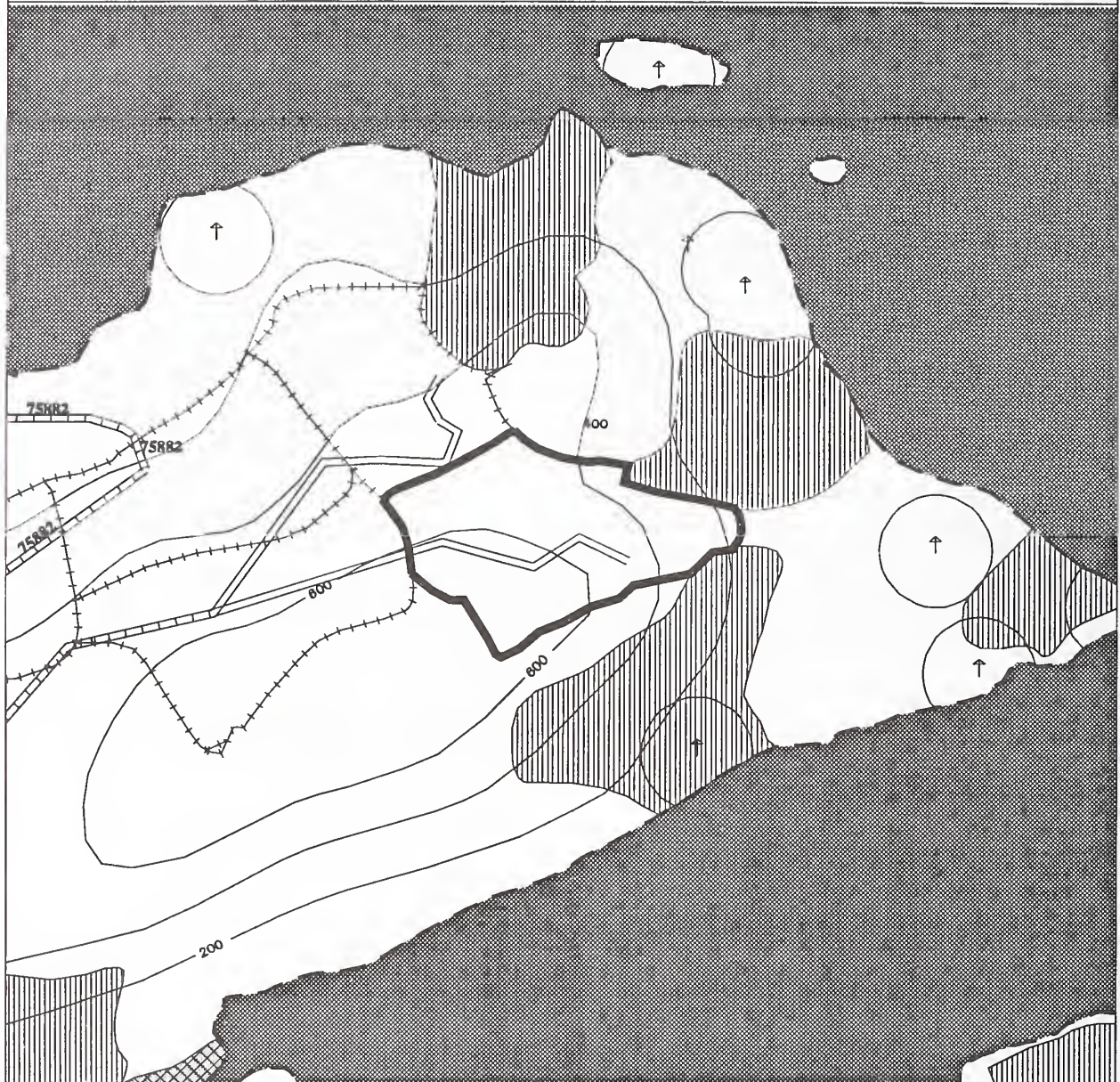
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3311	VCU: 292
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves, Protect soils where possible.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No profile run.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No soils concerns but recommend partial suspension to minimize surface disturbance.	
{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Protect v-notch on SW boundary of unit as per BMP 13.3, category "B."	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. High habitat value. Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Adjust boundary to reduce apparent size, screen harvested ground and replicate natural openings, Unit as planned does not meet VQO.	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 293 UNIT NUMBER: 3312 QUAD(s): SITB4NW
 ACRES: 34 VOLUME: 908 MBF HARVEST VOLUME: 863 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



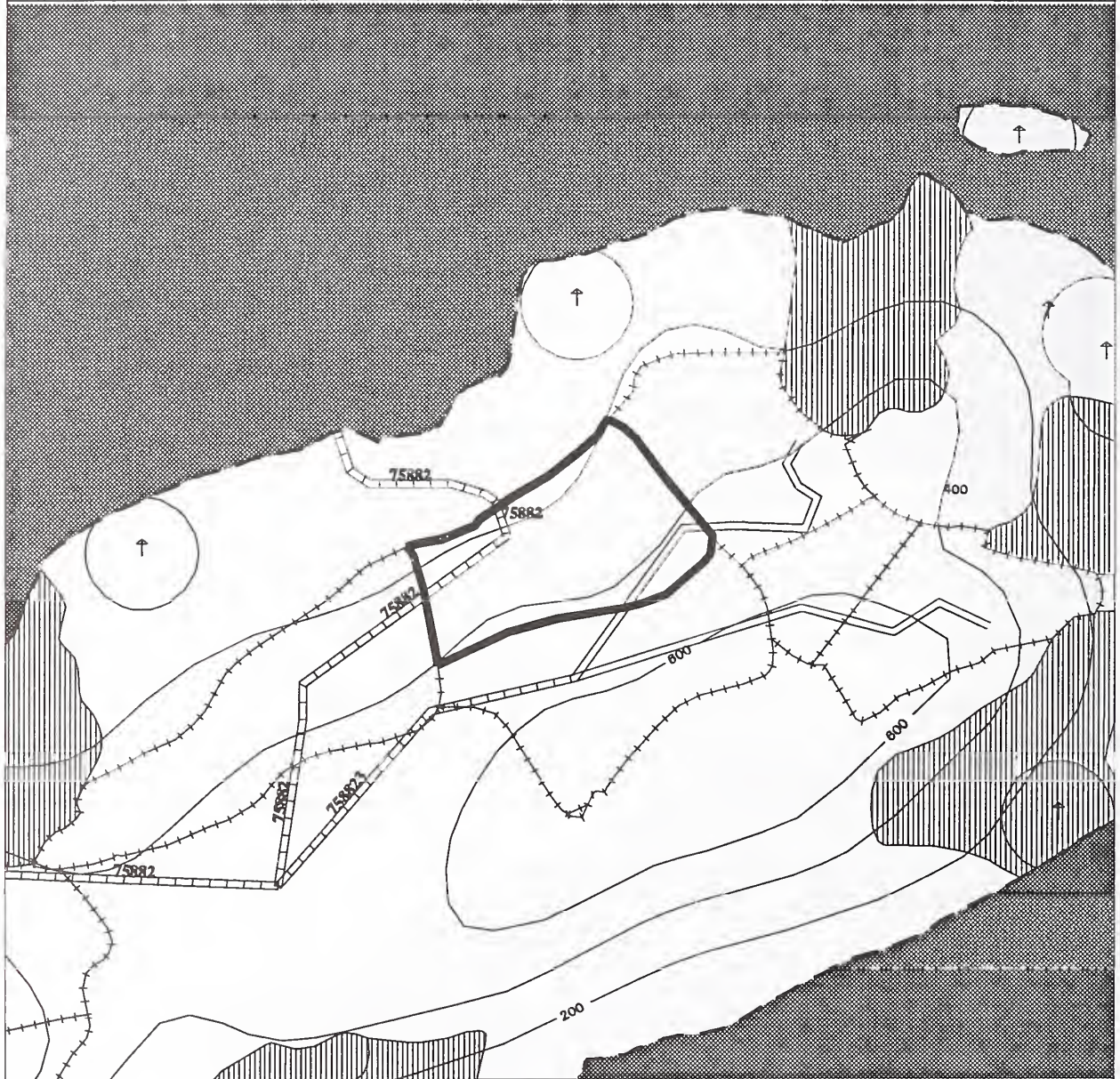
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3312	VCU: 292/293
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No profile needed.	
{ LANDS } FIELD REVIEWED: Yes RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No soils concerns; recommend partial suspension to minimize surface disturbance.	
{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None needed. REMARKS: No concerns.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. High habitat value. Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: Landscape Architect REMARKS: Unit as planned does not meet VQO. Feather edge along northwest boundary and place reserves to replicate muskeg to west.	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3313 QUAD(s): SITB4NW
 ACRES: 30 VOLUME: 849 MBF HARVEST VOLUME: 806 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



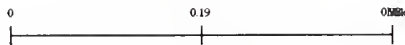
SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL



MAPSCALE 1:12000

LOGGING SYSTEMS:

C CABLE

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



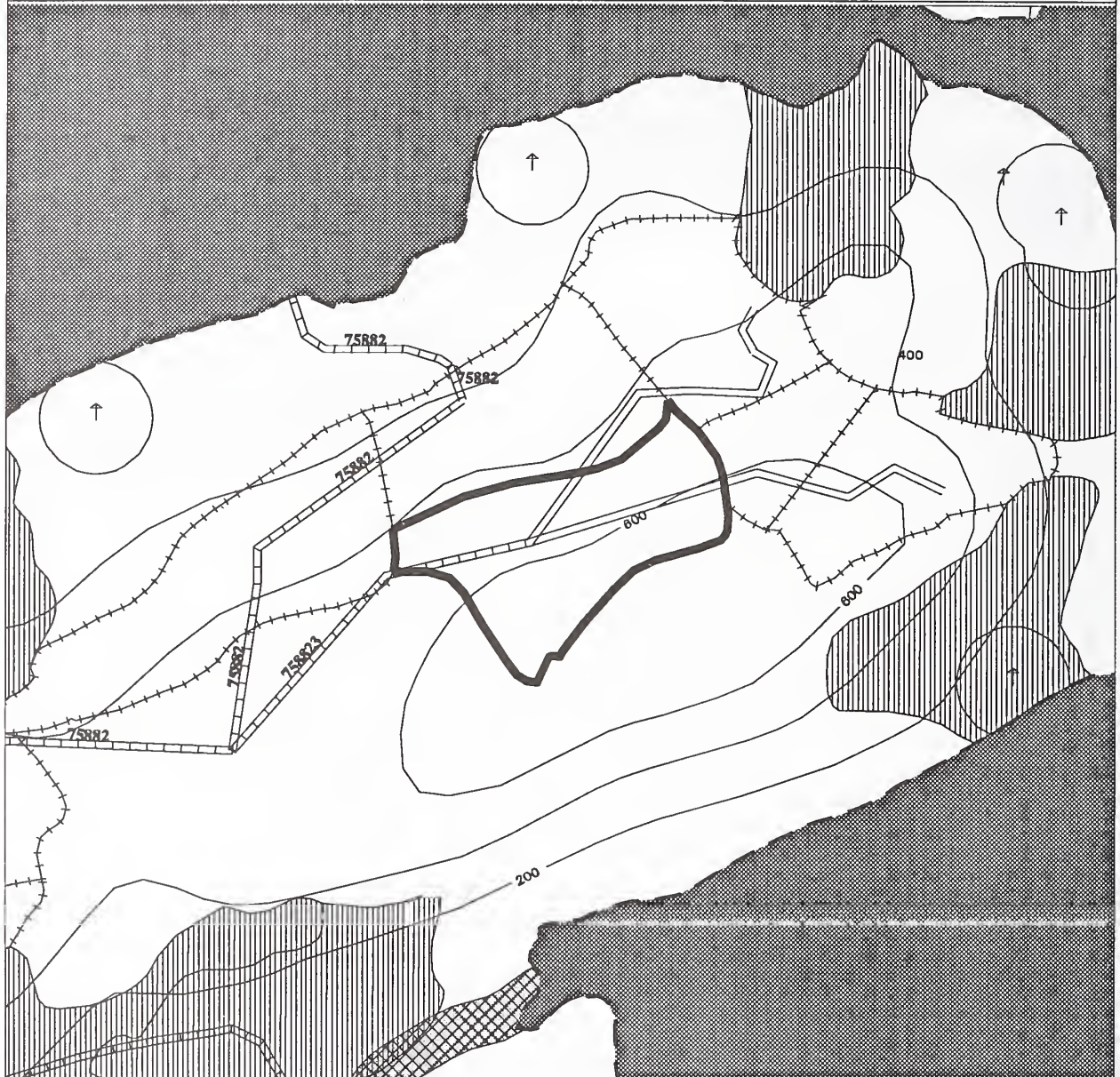
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3313	VCU: 292
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves. Consider planting cedar if not adequately naturally regenerated.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No profile needed.</p>	
<p>{ LANDS } FIELD REVIEWED: Yes RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No soils concerns; recommend partial suspension to minimize surface disturbance.</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist REMARKS: A stream at the south boundary is class I just outside the lower unit boundary. Two streams on the northwest end of the unit are also class I just outside the unit. The streams are marked in blue/white flagging and should be protected as per BMP 12.6a and 12.6. The class III portions of these streams, and the v-notch along the north boundary should be protected as per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. High habitat value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: Landscape Architect REMARKS: Unit as planned does not meet VQO. Feather edges and place reserves to soften geometric shape and screen harvested ground.</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 292 UNIT NUMBER: 3314 QUAD(s): SITB4NW
 ACRES: 33 VOLUME: 952 MBF HARVEST VOLUME: 809 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM

200 FT CONTOUR INTERVAL
 0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

C CABLE



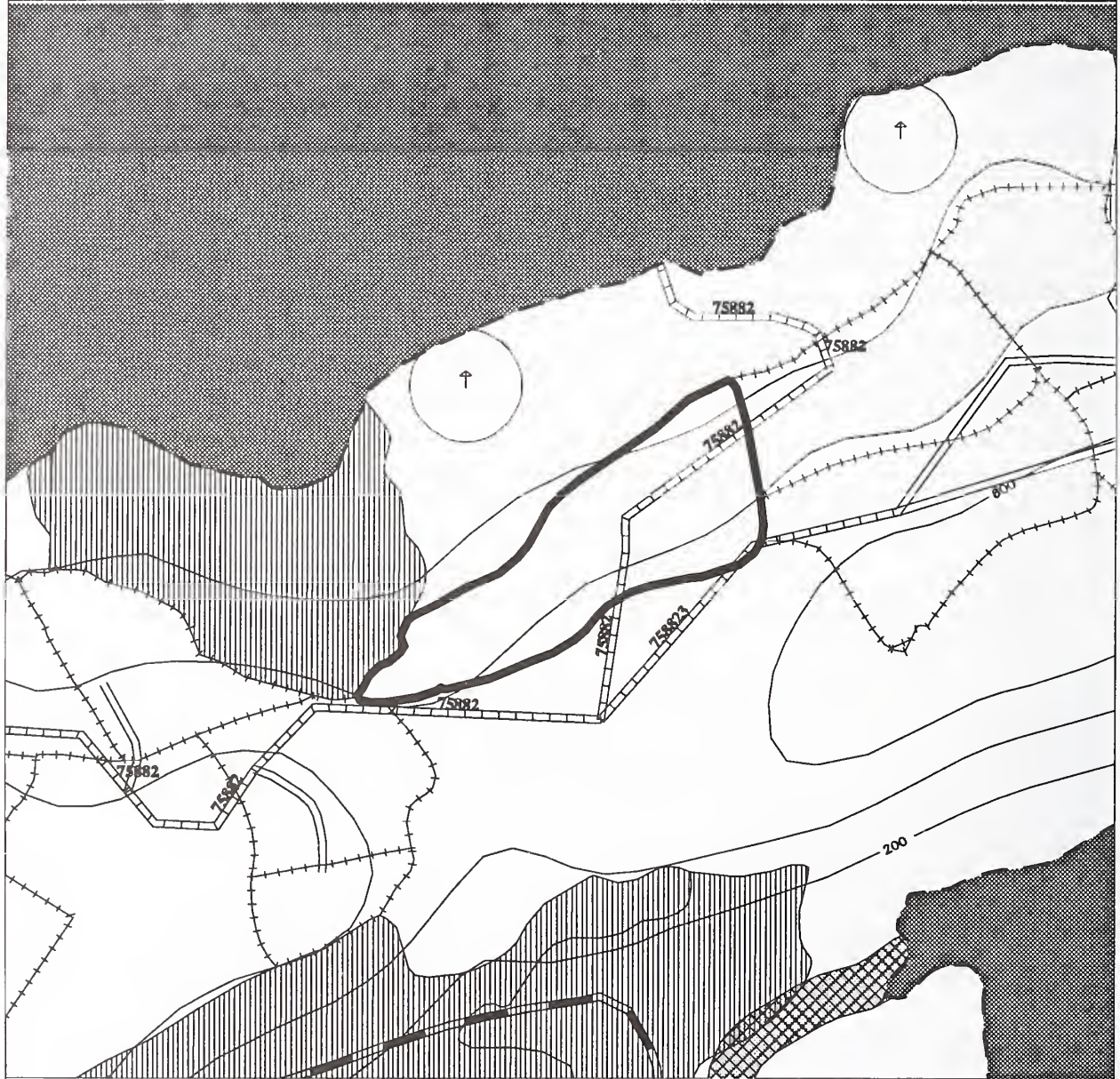
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 3314	VCU: 292/293
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Consider seed tree cut for cedar regen.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No profile needed.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No soils concerns; recommend partial suspension to minimize surface disturbance.	
{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Class III stream that bisects northern half of unit should be protected as per BMP 13.3, category B (extension of stream protection provided in unit 3313).	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. High habitat value. Recommend leaving snags where possible	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: Landscape Architect REMARKS: Unit as planned does not meet VQO. Feather edges, cluster seed trees if possible and place to screen harvested ground.	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

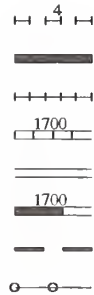
VCU: 292 UNIT NUMBER: 3315 QUAD(s): SITB4NW
 ACRES: 39 VOLUME: 984 MBF HARVEST VOLUME: 935 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM



0 0.19 0.38 Miles
 MAP SCALE 1:12000

LOGGING SYSTEMS:

c CABLE

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



NORTHWEST BARANOF HARVEST UNIT CARD

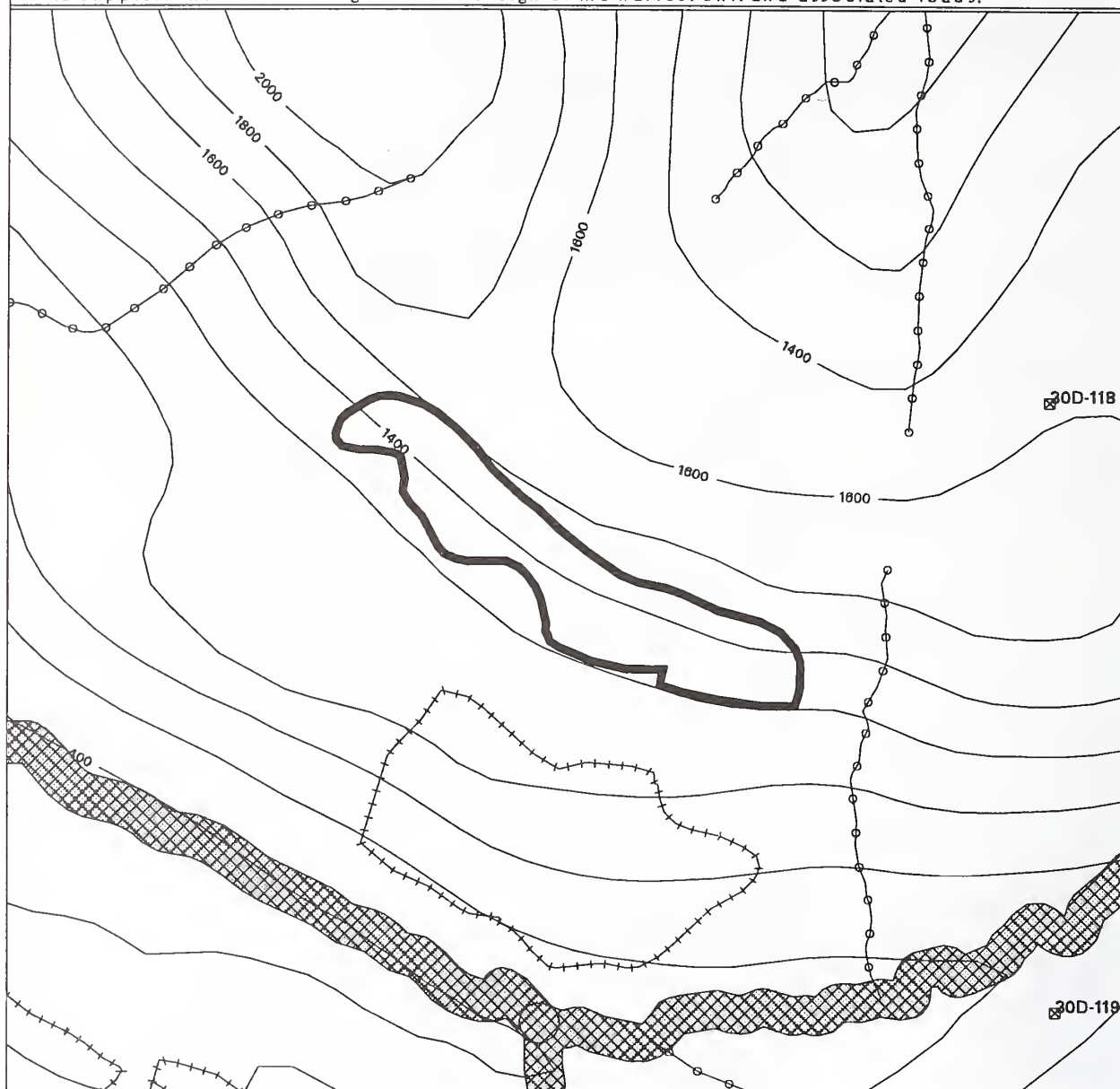
UNIT: 3315	VCU: 292
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves. Protect areas of wetter soils.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No profile needed.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No soils concerns; recommend partial suspension to minimize surface disturbance.</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Protect v-notch on north boundary and v-notch on south boundary as per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: Landscape Architect REMARKS: Unit as planned does not meet VQO. Feather upper and lower boundaries place reserves to screen harvested ground and replicate natural openings.</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD

PLANNED HARVEST UNIT MAP

VCU: 288 UNIT NUMBER: 4031 QUAD(s): SITB5NE/SITB5NW
 ACRES: 32 VOLUME: 808 MBF HARVEST VOLUME: 686 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

H HELICOPTER



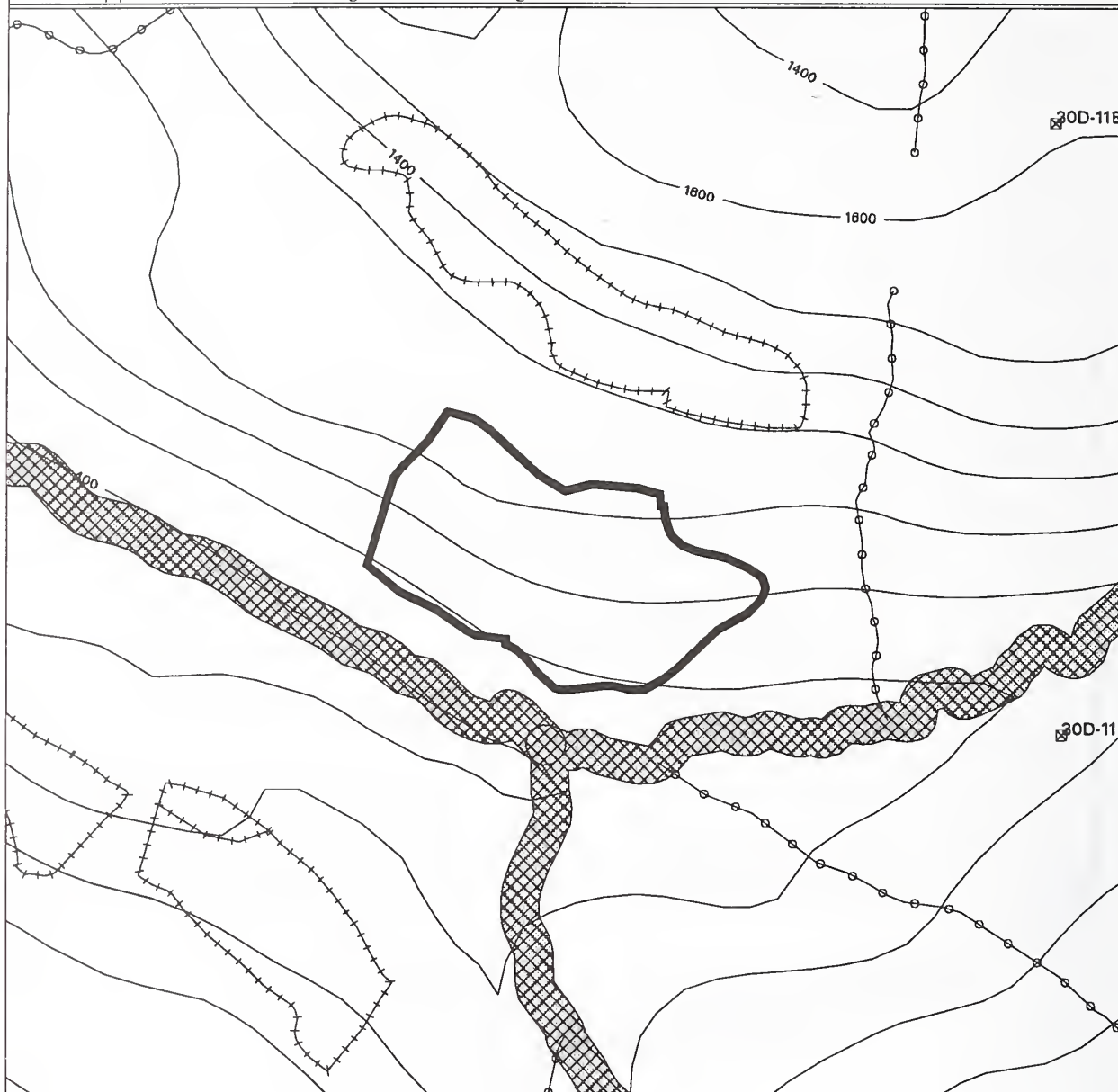
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 4031	VCU: 288
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is mixed conifer/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Consider seed tree cut for cedar regen. Protect understory to the extent possible.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. No road access planned.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No soils concerns.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit as planned does not meet VQO. Feather upper and lower boundaries to replicate natural openings.	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	









NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 288 UNIT NUMBER: 4041 QUAD(s): SITB5NW/SITB5NE
 ACRES: 48 VOLUME: 1230 MBF HARVEST VOLUME: 1045 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85






Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY 
 UNIT BOUNDARY 
 ADJACENT UNIT 
 NEW SPEC. ROAD 
 TEMPORARY ROAD 
 EXISTING SPEC. ROAD 
 SHORELINE 
 CLASS III STREAM 

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT 
 EAGLE TREE 
 EXISTING CLEARCUTS 
 SALTWATER AND LAKES 
 CLASS I & II STREAM BUFFER 

LOGGING SYSTEMS:

H HELICOPTER



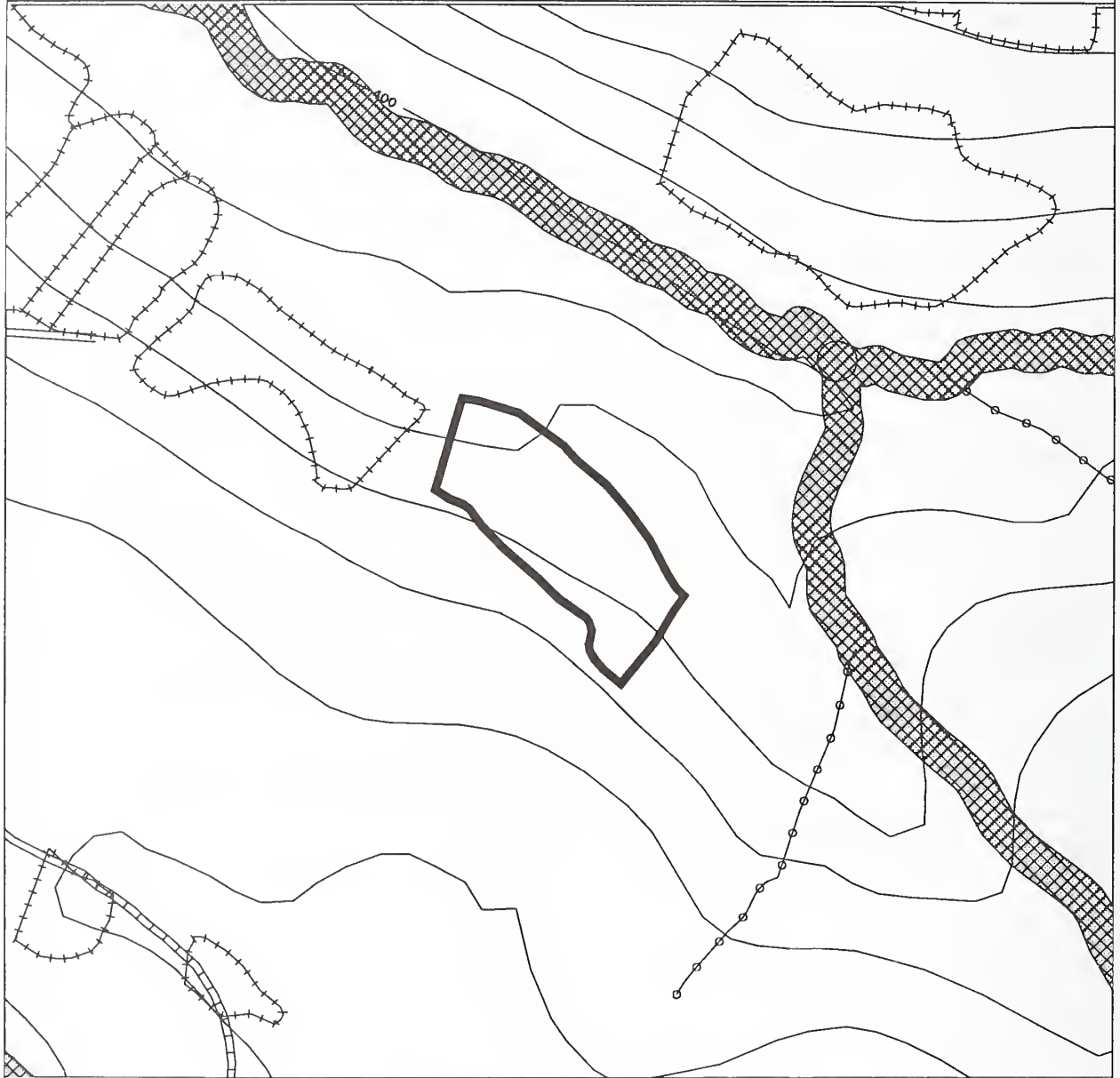
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 4041	VCU: 288
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Consider seed tree cut for cedar regen. Protect understory to the extent possible.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. No road access planned. Soils concerns.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No soils concerns.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 288 UNIT NUMBER: 4061 QUAD(s): SITB5NW
 ACRES: 25 VOLUME: 631 MBF HARVEST VOLUME: 536 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM

200 FT CONTOUR INTERVAL
 0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

H HELICOPTER



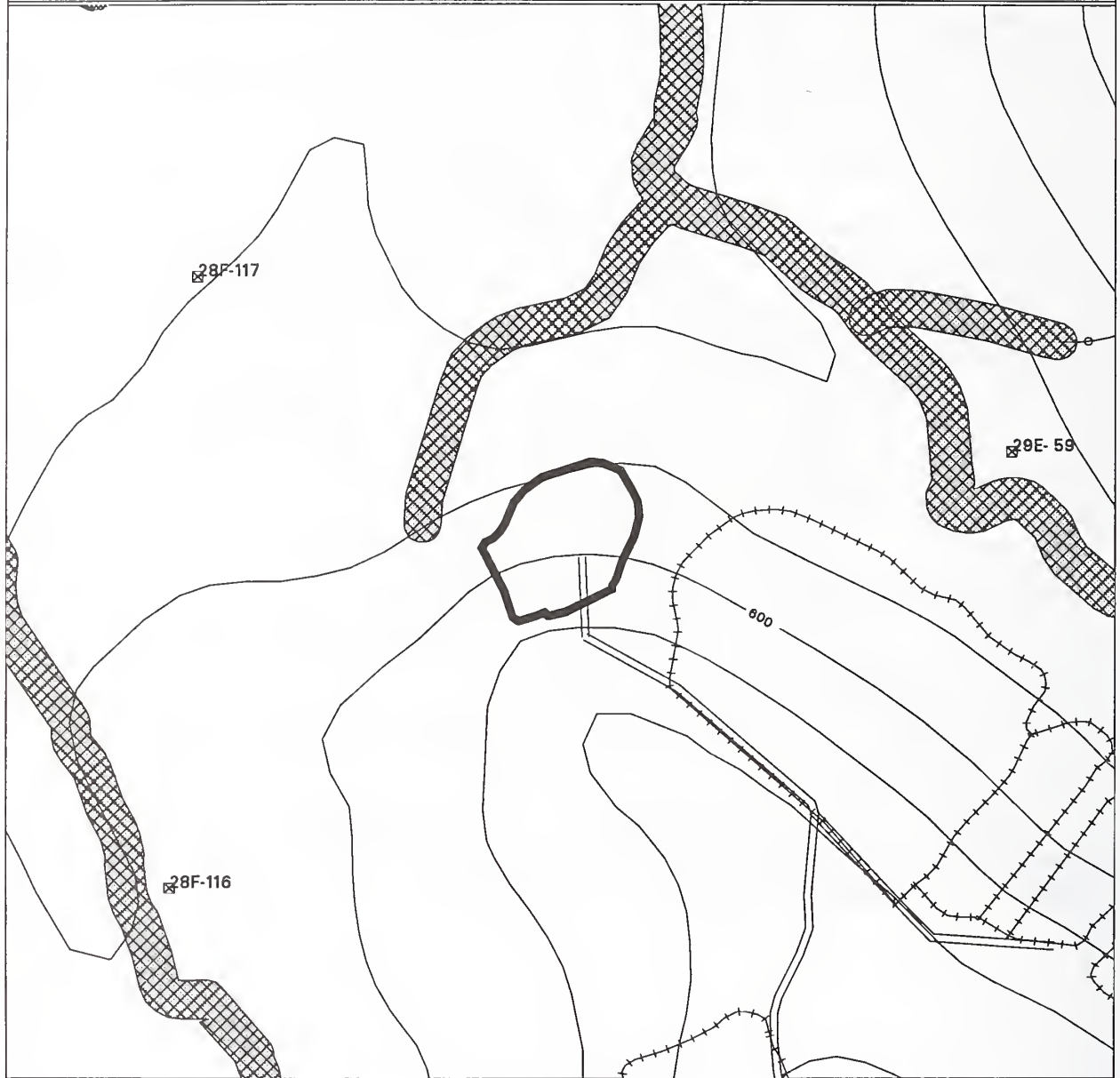
NORTHWEST BARANOF HARVEST UNIT CARD









UNIT: 4061	VCU: 288
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Consider seed tree cut for cedar regen. Protect areas of wetter soils.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. No road access planned. Soils concerns.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend for helicopter only; ensure backline is below very poorly drained soils steeper than 45%; remove any debris introduced into v-notches	
{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Protect v-notches that bisect the unit, 1/3 and 4/5 of distance across unit moving west to east, as per BMP 13.3, category "B."	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP






VCU: 288 UNIT NUMBER: 4081 QUAD(s): SITB5NW
 ACRES: 13 VOLUME: 328 MBF HARVEST VOLUME: 295 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 90

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY 
 UNIT BOUNDARY 
 ADJACENT UNIT 
 NEW SPEC. ROAD 
 TEMPORARY ROAD 
 EXISTING SPEC. ROAD 
 SHORELINE 
 CLASS III STREAM 

200 FT CONTOUR INTERVAL
 0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT 
 EAGLE TREE 
 EXISTING CLEARCUTS 
 SALTWATER AND LAKES 
 CLASS I & II STREAM BUFFER 

LOGGING SYSTEMS:

C CABLE



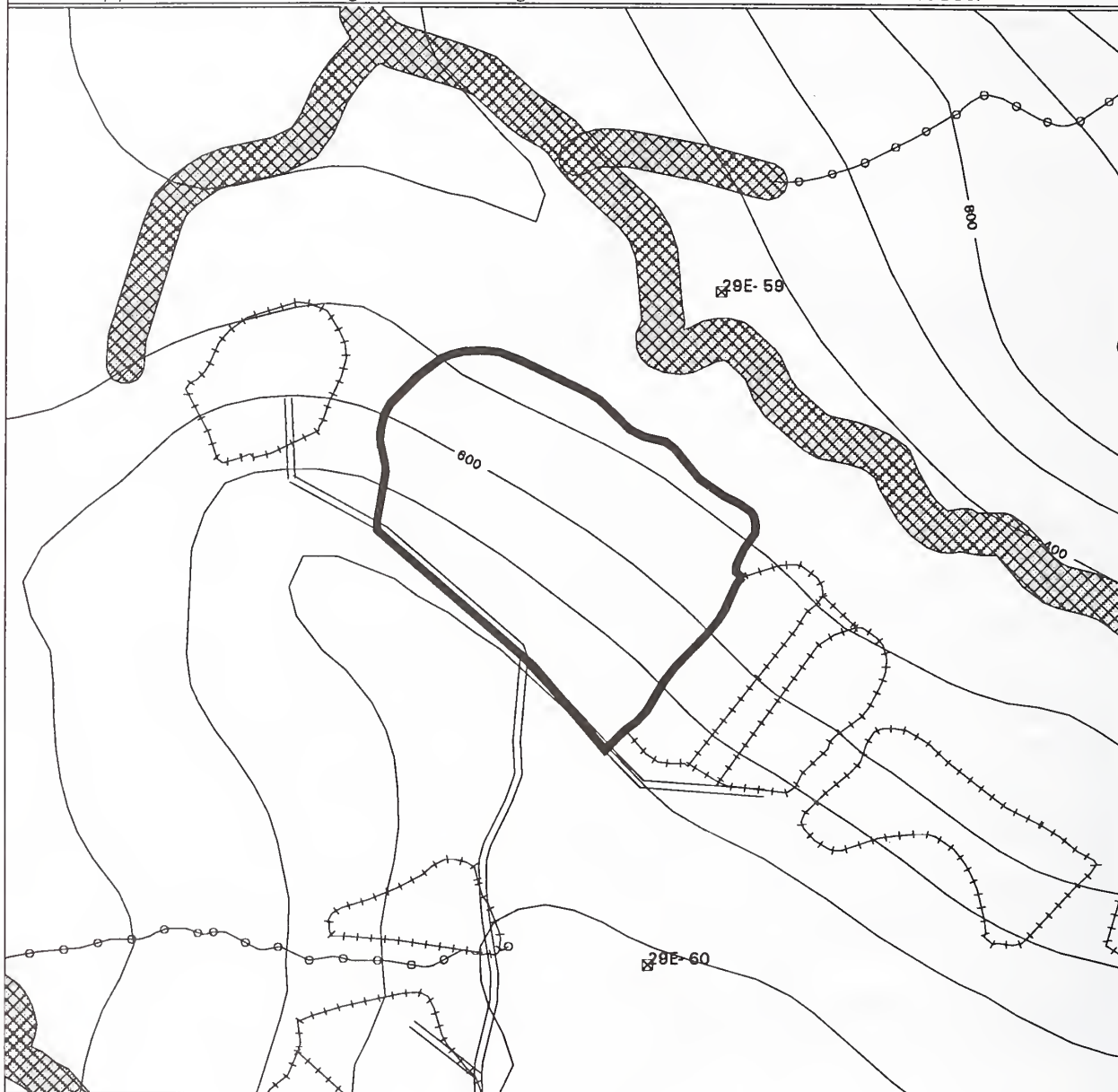
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 4081	VCU: 288
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis is low canopy retention, Clearcut with reserves. Consider planting cedar.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Running Skyline. Soils concerns. No harvest over 75% slope. Profile not needed.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit contains some oversteepened and unstable soils; recommend full suspension to protect slopes.	
{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist REMARKS: Class II fish habitat below lower unit boundary. Recommend soils review of unit due to high mass wasting hazard. Selectively harvest merchantable timber within 75' of lower unit boundary along muskeg to provide a vegetated filter strip and to retain some root strength at base of steep slope as per BMP 13.16 and 13.5.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 288 UNIT NUMBER: 4082 QUAD(s): SITB5NW
 ACRES: 69 VOLUME: 1819 MBF HARVEST VOLUME: 1728 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



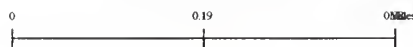
SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL



MAP SCALE 1:12000

LOGGING SYSTEMS:

C CABLE

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



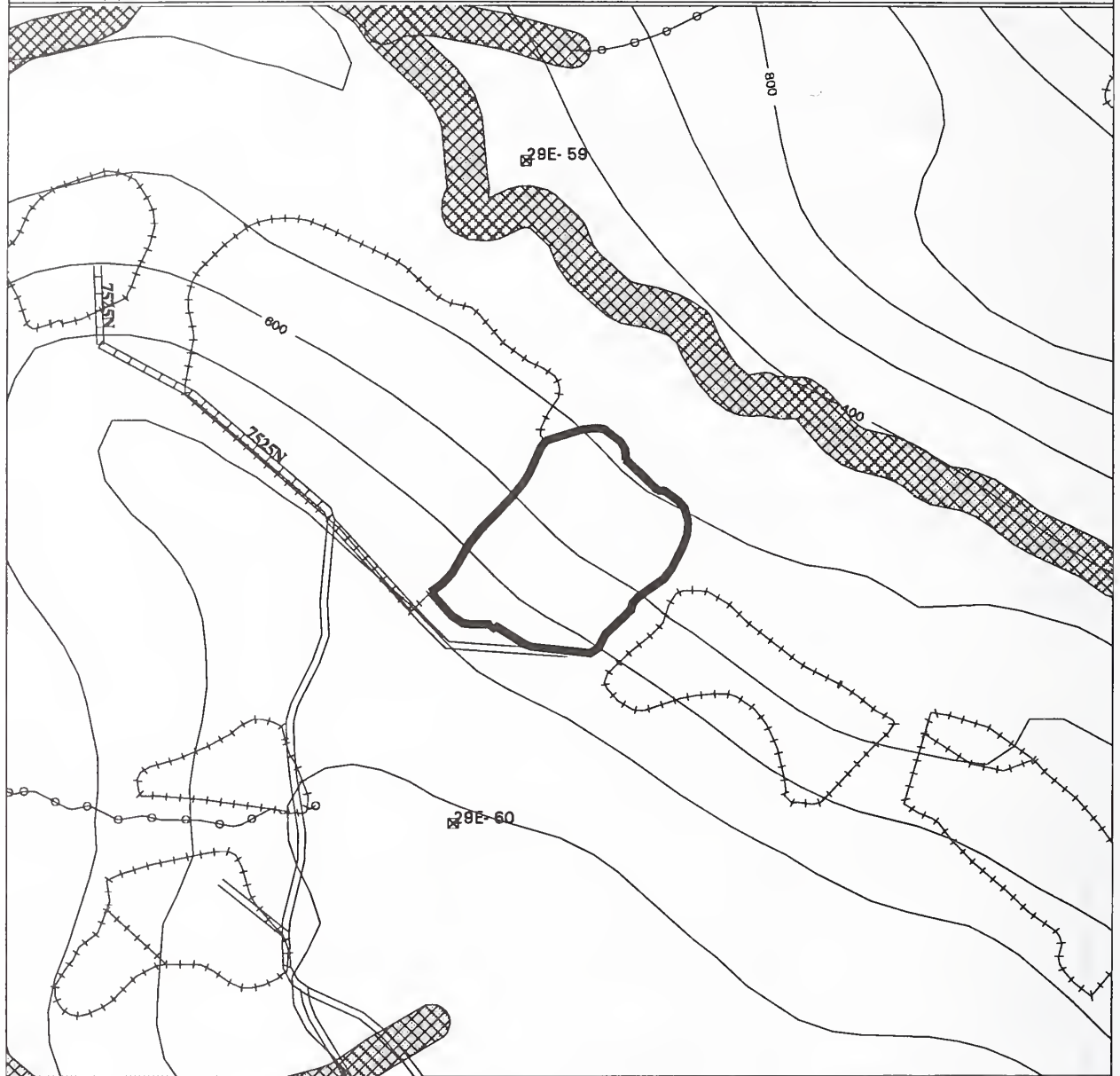
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 4082	VCU: 288
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry and mixed conifer/blueberry, Silvicultural diagnosis is low canopy retention, Clearcut with reserves.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Partial suspension attained. Profiles run from Landing 1,2. Artificial anchors required on Landings 2,3. 70 foot tail trees needed. Soils concerns. Buffer Class I stream.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit contains several v-notches, some wet areas, and steep slopes near the lower boundary; recommend directional falling trees away from notches and removing any debris introduced into notches; splityard on notches or ensure full suspension across them if necessary to yard across them; recommend at least partial suspension elsewhere in the unit; ensure lower boundary is located above slopes steeper than 75 percent that are found below the unit.</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Three v-notches bisect the unit, and should be protected as per BMP 13.3, category "B." The v-notches are located near the west boundary, approximately 15% across unit, in the center and curving Eastward towards the NE corner, and near the east boundary. Other v-notches should be protected as per BMP 13.3, category "C". The Class I, MM2 channel at the bottom of the slope (north of boundary) should be protected as per BMP 12.6a and 12.6.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Goshawk response in 1994 but no response in 1993 and 1995. Possible foraging area but probably not nesting area. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: Landscape Architect REMARKS: Unit as planned does not meet VQO. Feather east boundary and cluster reserves along east boundary.</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	









NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 288 UNIT NUMBER: 4083 QUAD(s): SITB5NW
 ACRES: 28 VOLUME: 798 MBF HARVEST VOLUME: 758 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95






Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY 
 UNIT BOUNDARY 
 ADJACENT UNIT 
 NEW SPEC. ROAD 
 TEMPORARY ROAD 
 EXISTING SPEC. ROAD 
 SHORELINE 
 CLASS III STREAM 

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT 
 EAGLE TREE 
 EXISTING CLEARCUTS 
 SALTWATER AND LAKES 
 CLASS I & II STREAM BUFFER 

LOGGING SYSTEMS:

C CABLE



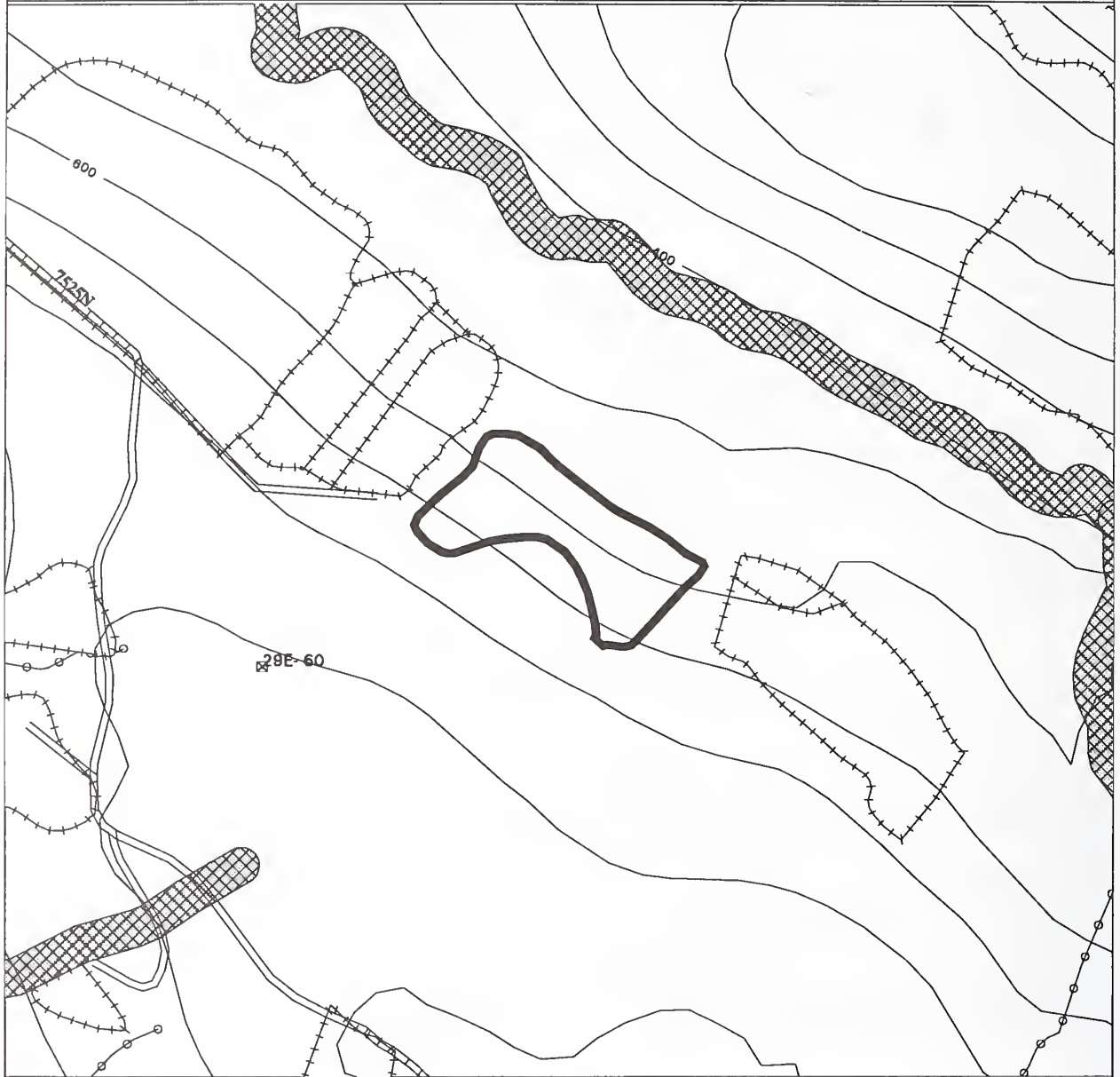
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 4083	VCU: 288
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is mixed conifer/blueberry and Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis is low canopy retention, Protect regeneration if possible, Clearcut with reserves. Consider planting cedar.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Artificial anchors required on all Landings. Partial suspension attained. Profiles run from all Landings. Split yard on V-notch. Buffer Class I stream 100+ horizontal feet.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Ensure backline is below oversteepened areas; recommend deep v-notches be used as splitlines and full suspension over any other notches; at least partial suspension elsewhere</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: A large v-notch bisects the center of the unit, and should be protected as per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 288 UNIT NUMBER: 4084 QUAD(s): SITB5NW
 ACRES: 20 VOLUME: 546 MBF HARVEST VOLUME: 519 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



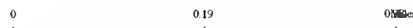
SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL



MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



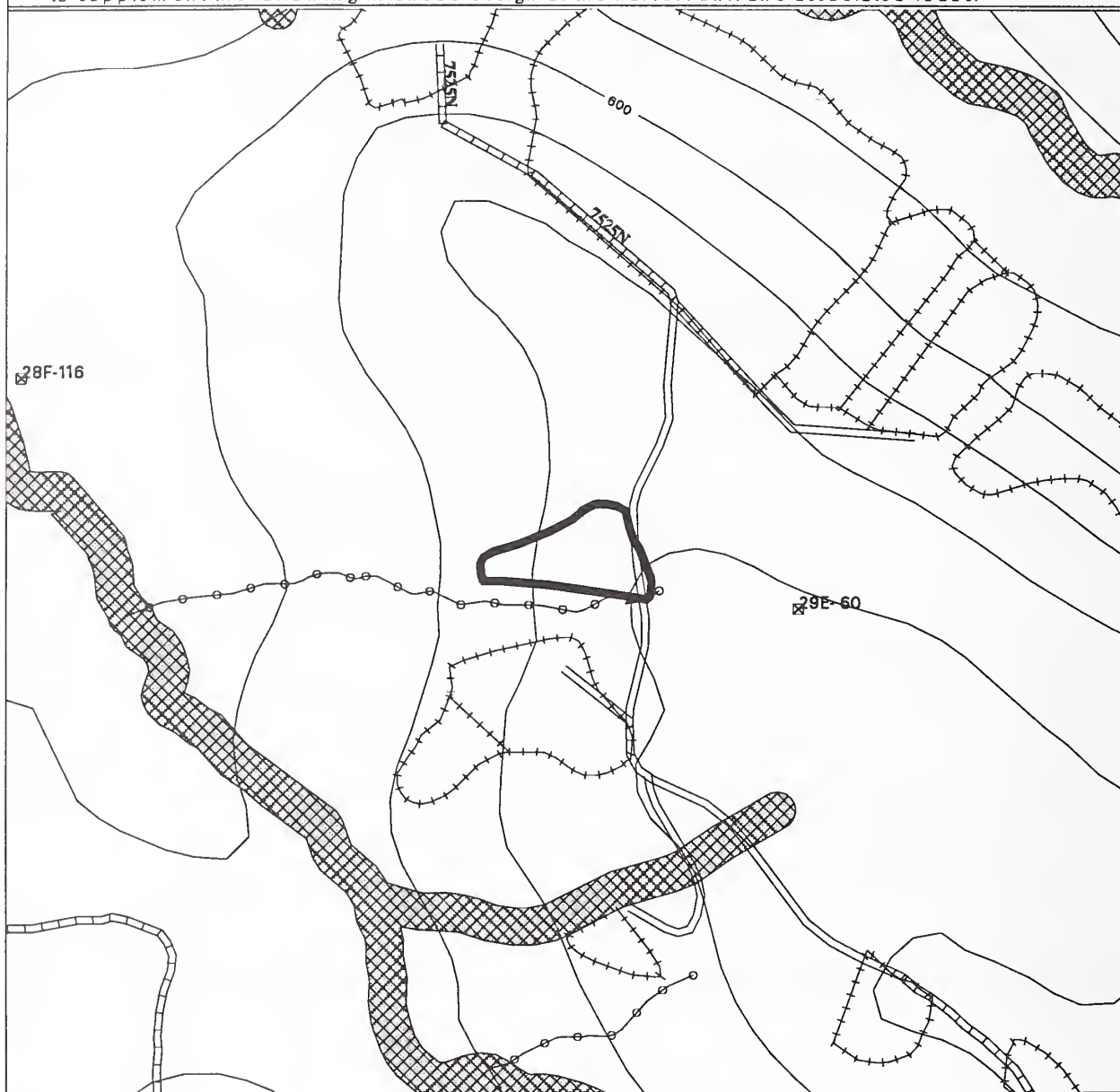
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 4084	VCU: 288
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is mixed conifer/blueberry, Silvicultural diagnosis is low canopy retention, Protect soils if possible, Clearcut with reserves. Consider planting cedar.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. No road access planned. Soils concerns. Exclude >75% slopes on upper bdy.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Ensure that backline is below the oversteepened cliffy areas near top of unit; remove any debris introduced into notches during harvest; recommend full suspension if unit is not helicopter logged	
{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Three v-notches bisect the unit, and should be protected as per BMP 13.3, category "B."	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 288 UNIT NUMBER: 4091 QUAD(s): SITB5NW
 ACRES: 8 VOLUME: 202 MBF HARVEST VOLUME: 192 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

c CABLE



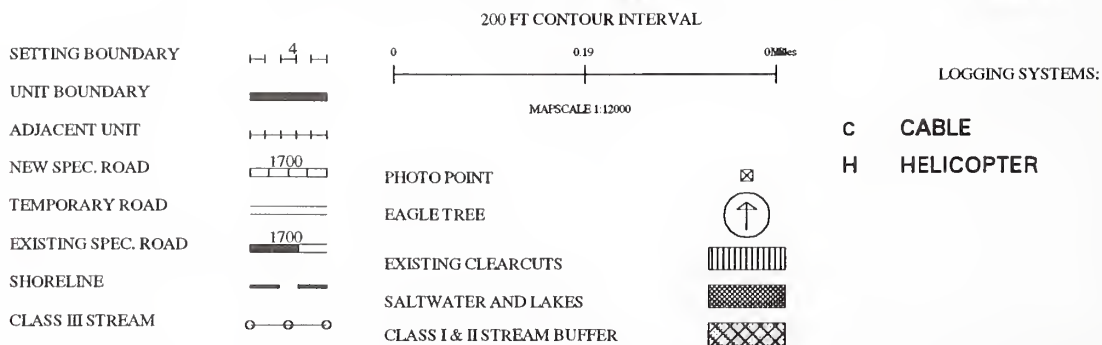
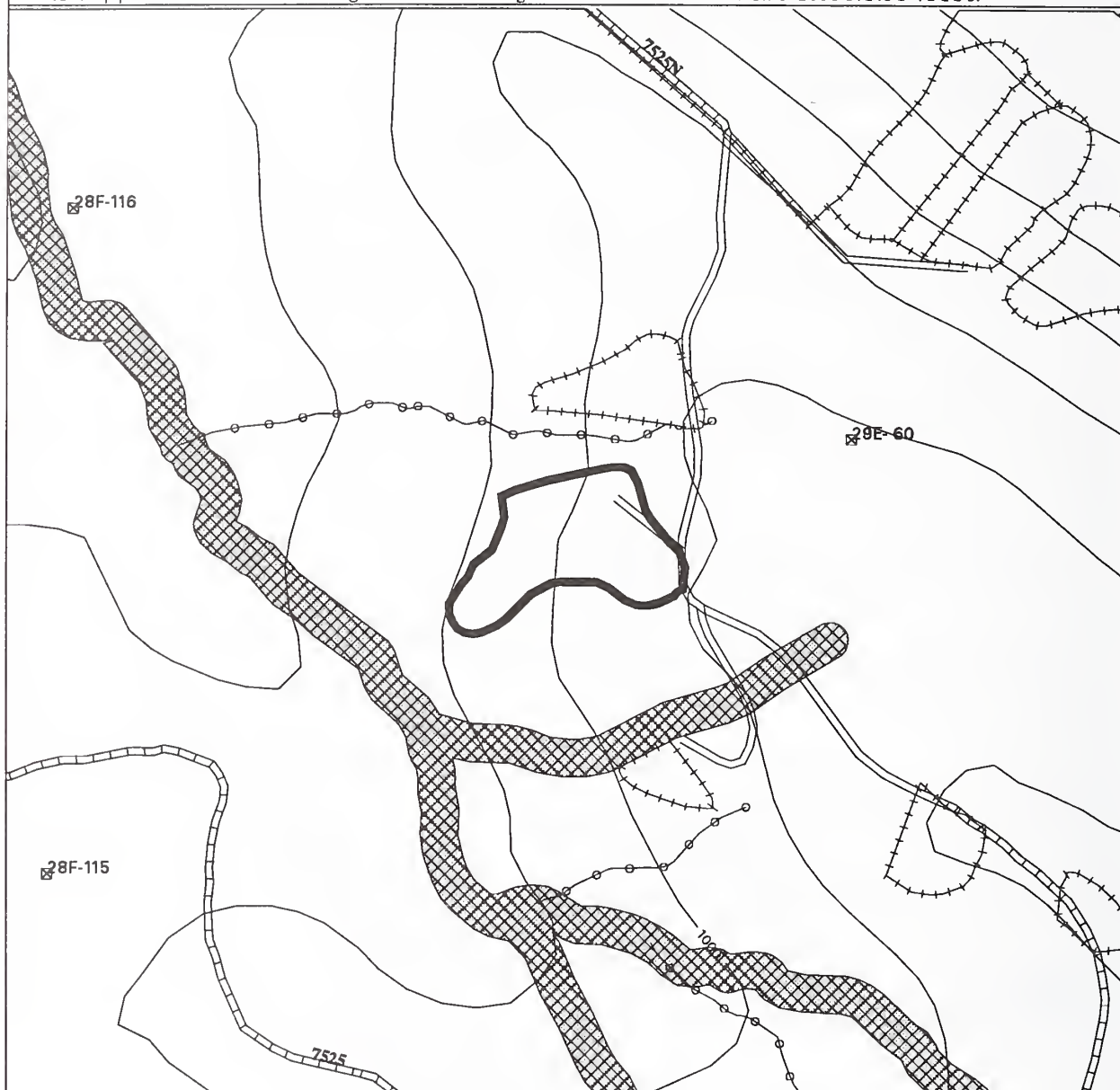
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 4091	VCU: 288
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Sitka spruce-mountain hemlock/blueberry, Silvicultural diagnosis is low canopy retention, Protect regeneration where possible, Clearcut with reserves.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No profile needed.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Some wet areas, blowdown, and small slumps present; recommend at least partial suspension with full suspension over existing slumps to minimize soil disturbance.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: A class III, HC4 channel on the south unit boundary, and an unmapped class III, HC4 channel on the north unit boundary should be protected as per BMP 13.3, category "B." Class II habitat starts in the lower grade HC1 channel downstream.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 288 UNIT NUMBER: 4092 QUAD(s): SITB5NW
 ACRES: 17 VOLUME: 429 MBF HARVEST VOLUME: 408 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 4092	VCU: 288
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Sitka spruce-mountain hemlock/blueberry. Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required on 4 acres on SW end. Live Skyline for the rest. Partial suspension attained on cable portion of unit.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend at least partial suspension to protect soils.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: A small stream flows from the center of the unit to exit the NW corner. This stream should be marked in orange/white flagging, and protected as per BMP 13.3, category "B."	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 288 UNIT NUMBER: 4093 QUAD(s): SITB5NW
 ACRES: 5 VOLUME: 126 MBF HARVEST VOLUME: 120 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL

0 0.19 0.38 Miles

MAP SCALE 1:12000

LOGGING SYSTEMS:

C CABLE

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 4093	VCU: 288
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is mixed conifer/blueberry, Silvicultural diagnosis is low canopy retention, Protect soils where possible, Clearcut with reserves.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No profile needed.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No soils concerns; recommend partial suspension to minimize surface disturbance.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Place NW unit boundary at or above the slope break of the Class III, HC4 channel (stream is listed as a class II channel in GIS, but is class II adjacent to the unit).	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

VCU: 288 UNIT NUMBER: 4094 QUAD(s): SITB5NW
 ACRES: 5 VOLUME: 126 MBF HARVEST VOLUME: 107 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.

SETTING BOUNDARY

UNIT BOUNDARY

ADJACENT UNIT

NEW SPEC. ROAD

TEMPORARY ROAD

EXISTING SPEC. ROAD

SHORELINE

CLASS III STREAM

PHOTO POINT

EAGLE TREE

EXISTING CLEARCUTS

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

200 FT CONTOUR INTERVAL

MAP SCALE 1:12000

LOGGING SYSTEMS:

C CABLE

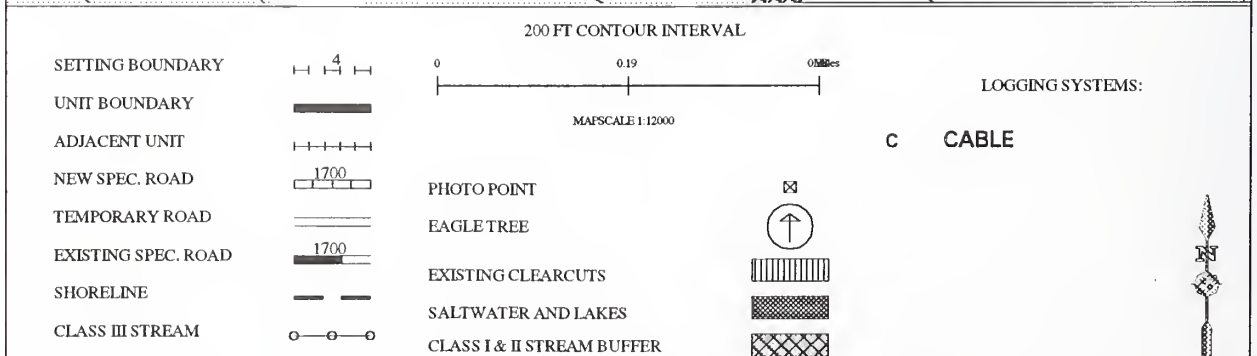
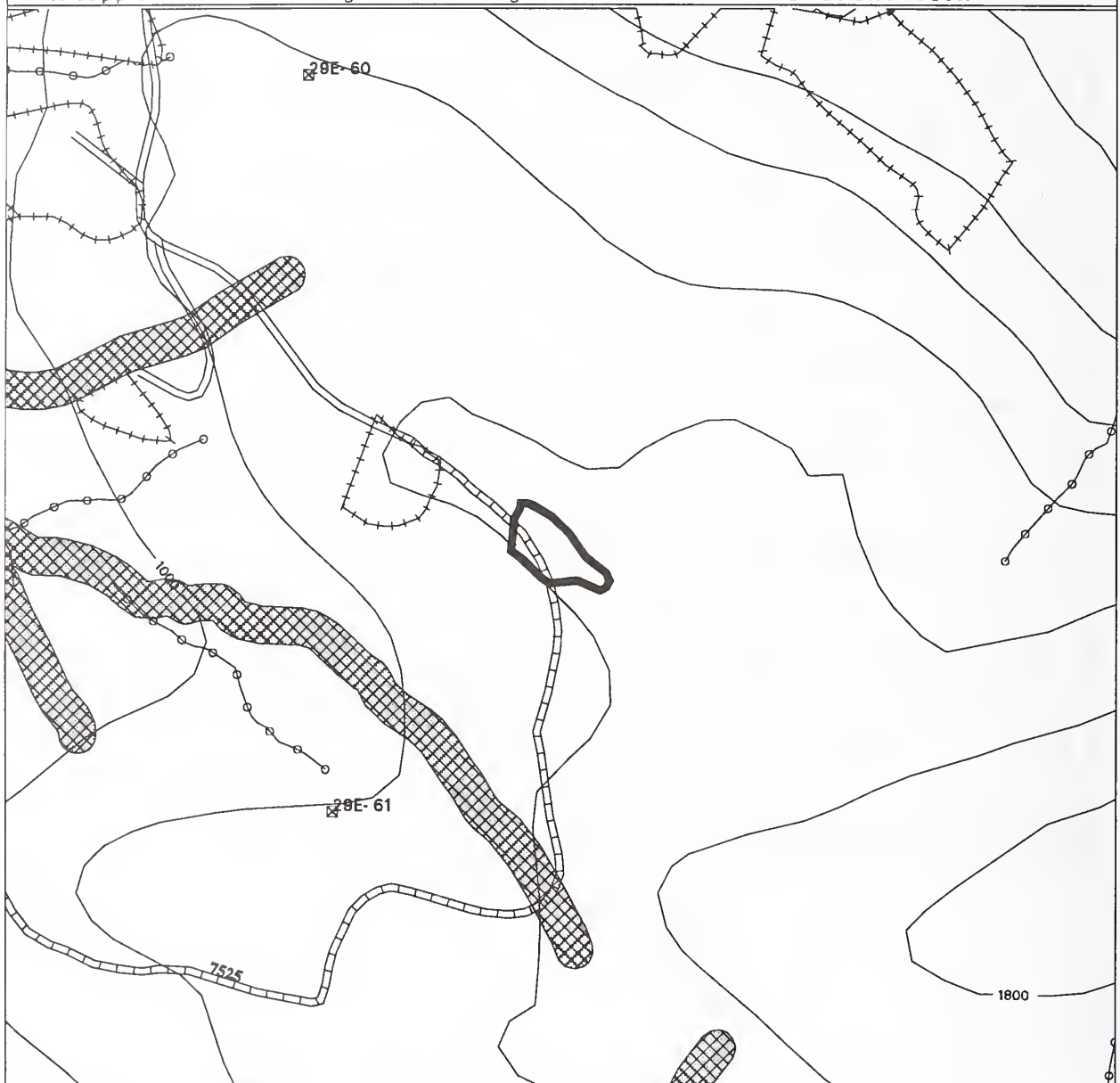
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 4094	VCU: 288
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is mixed conifer/blueberry, Silvicultural diagnosis is low canopy retention, Consider seed tree cut for cedar regen.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Profile not needed.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Bad areas have been deleted; recommend partial suspension over remainder of unit to minimize surface disturbance.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 288 UNIT NUMBER: 4095 QUAD(s): SITB5NW
 ACRES: 3 VOLUME: 76 MBF HARVEST VOLUME: 68 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 90

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 4095	VCU: 288
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Sitka spruce-mountain hemlock/blueberry, Silvicultural diagnosis for treatment is medium canopy retention, Consider overstory removal.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Profile not needed.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Bad areas deleted; recommend partial suspension to minimize surface disturbance.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 288 UNIT NUMBER: 5001 QUAD(s): SITB5NW
 ACRES: 7 VOLUME: 177 MBF HARVEST VOLUME: 168 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL

0 0.19 0.38 Miles

MAP SCALE 1:12000

LOGGING SYSTEMS:

C CABLE

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



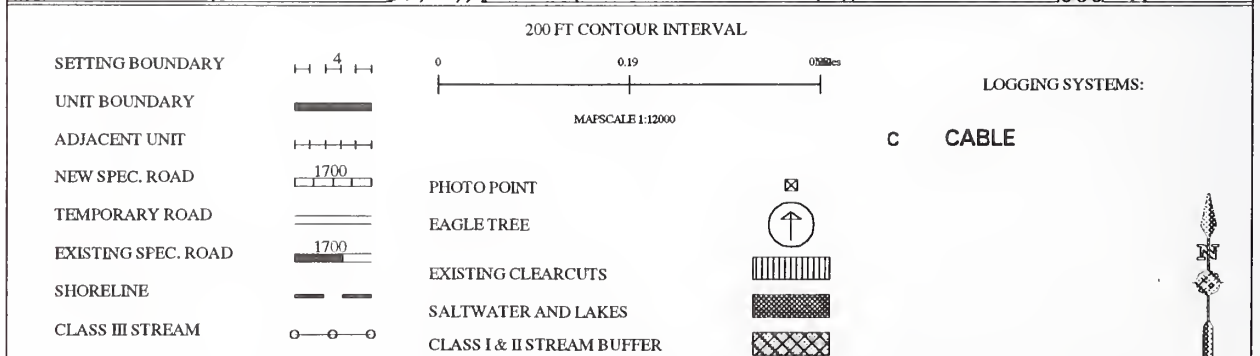
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 5001	VCU: 288
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis is low canopy retention, Clearcut with reserves. Consider planting cedar.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No concerns. Possible state selection land. Yarding cross canyon to landing in 5002 possible. Profile not needed.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: Lands Forester REMARKS: Unit is adjacent to state land selection AA-71693 near Baby Bear Bay. This selection has been approved by the Regional Forester. Selection boundaries need to be identified prior to layout to avoid encroachment.</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No soils concerns; recommend partial suspension to minimize surface disturbance.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist to verify extent of class II fish habitat. REMARKS: HC4 channel on east boundary is a class II fish stream up to the NE corner, and may have some habitat further upstream. Protect as per BMP 12.6a and 12.6.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit as planned does not meet VQO. Feather edges and cluster reserves to soften geometric appearance of unit.</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Do not move boundaries any closer to the beach.</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 288 UNIT NUMBER: 5002 QUAD(s): SITB5NW
 ACRES: 7 VOLUME: 177 MBF HARVEST VOLUME: 168 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



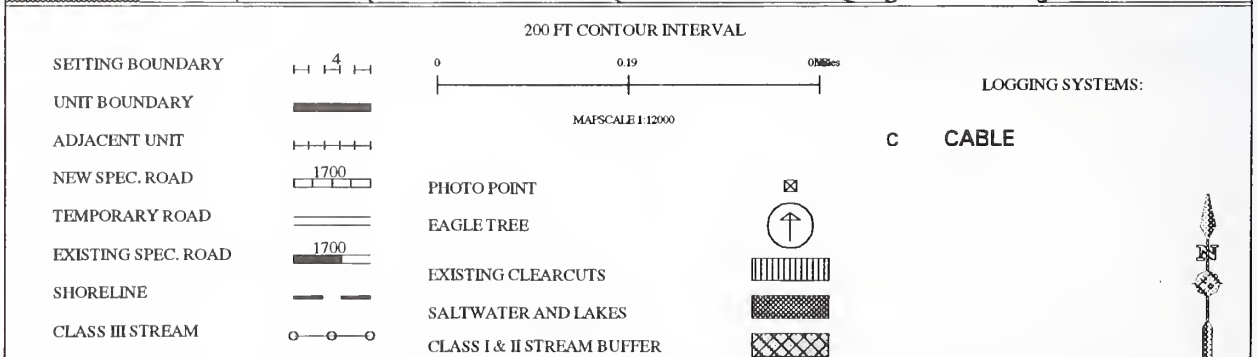
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 5002	VCU: 288
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis is low canopy retention, Clearcut with reserves. Consider planting cedar.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Possible cross canyon yarding. Possible state selection area. Only need road access to 5002 or 5001, not both.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: Lands Forester REMARKS: Unit is adjacent to state land selection AA-71693. This selection has been approved by the Regional Forester. Selection boundary need to be identified prior to unit lay out to avoid encroachment.</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend at least partial suspension to minimize surface disturbance.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist to verify the extent of class II fish habitat. REMARKS: HC4 channel on west boundary is a class II fish stream up to the NW corner, and may have some habitat further upstream. Protect as per BMP 12.6a and 12.6. A v-notch in the NW corner that flows into the class II habitat should be marked with orange/white flagging and protected as per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit as planned does not meet VQO. Feather edges and cluster reserves to soften geometric appearance of unit.</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 288 UNIT NUMBER: 5003 QUAD(s): SITB5NW
 ACRES: 14 VOLUME: 399 MBF HARVEST VOLUME: 359 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 90

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 5003	VCU: 287/288
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is medium canopy retention, Protect regeneration where possible, Consider overstory removal.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Visual concerns. Profile not needed.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist REMARKS: Ensure east boundary avoids unstable soils (wet areas containing grass and false hellebore); recommend at least partial suspension over rest of unit with full suspension over v-notches. See Fisheries Comments.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist or Hydrologist REMARKS: Three tributaries of a class III, MM1 channel split this unit: one near the west boundary, one near the center, and one near the east boundary. These streams should be marked with orange/white flagging and protected as per BMP 13.3, category "B." It may be necessary to buffer portions of the stream within the unit to reduce the risk of sediment delivery to downstream fish habitat (BMP 13.5). The soils surrounding the stream are mapped as having a high soil mass movement hazard. Buffer v-notches as per soils/hydro instruction at layout (BMP 13.16)</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 287 UNIT NUMBER: 5004 QUAD(s): SITB5NW
 ACRES: 34 VOLUME: 1014 MBF HARVEST VOLUME: 203 MBF
 HARVEST PRESCRIPTION: Group Selection PERCENT VOLUME HARVESTED: 20

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL		0 0.19 0.38 Miles	
MAP SCALE 1:12000			
SETTING BOUNDARY		PHOTO POINT	
UNIT BOUNDARY		EAGLE TREE	
ADJACENT UNIT		EXISTING CLEARCUTS	
NEW SPEC. ROAD		SALTWATER AND LAKES	
TEMPORARY ROAD		CLASS I & II STREAM BUFFER	
EXISTING SPEC. ROAD			
SHORELINE			
CLASS III STREAM			

C CABLE



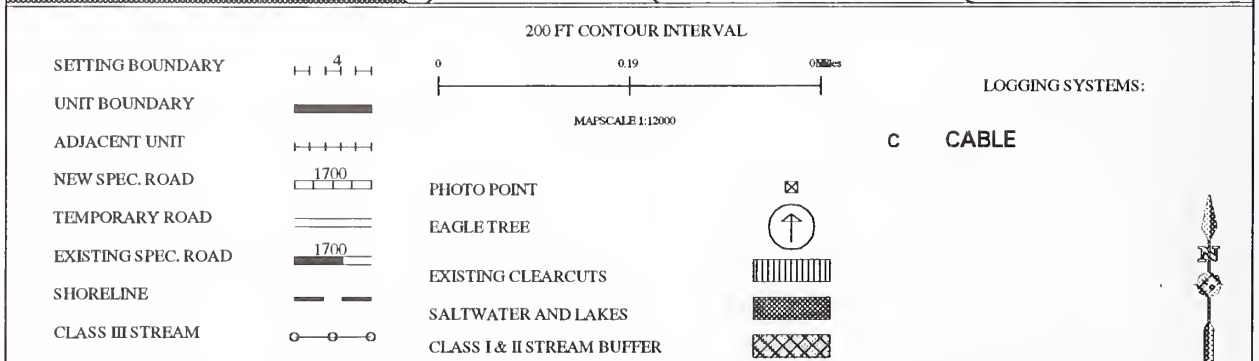
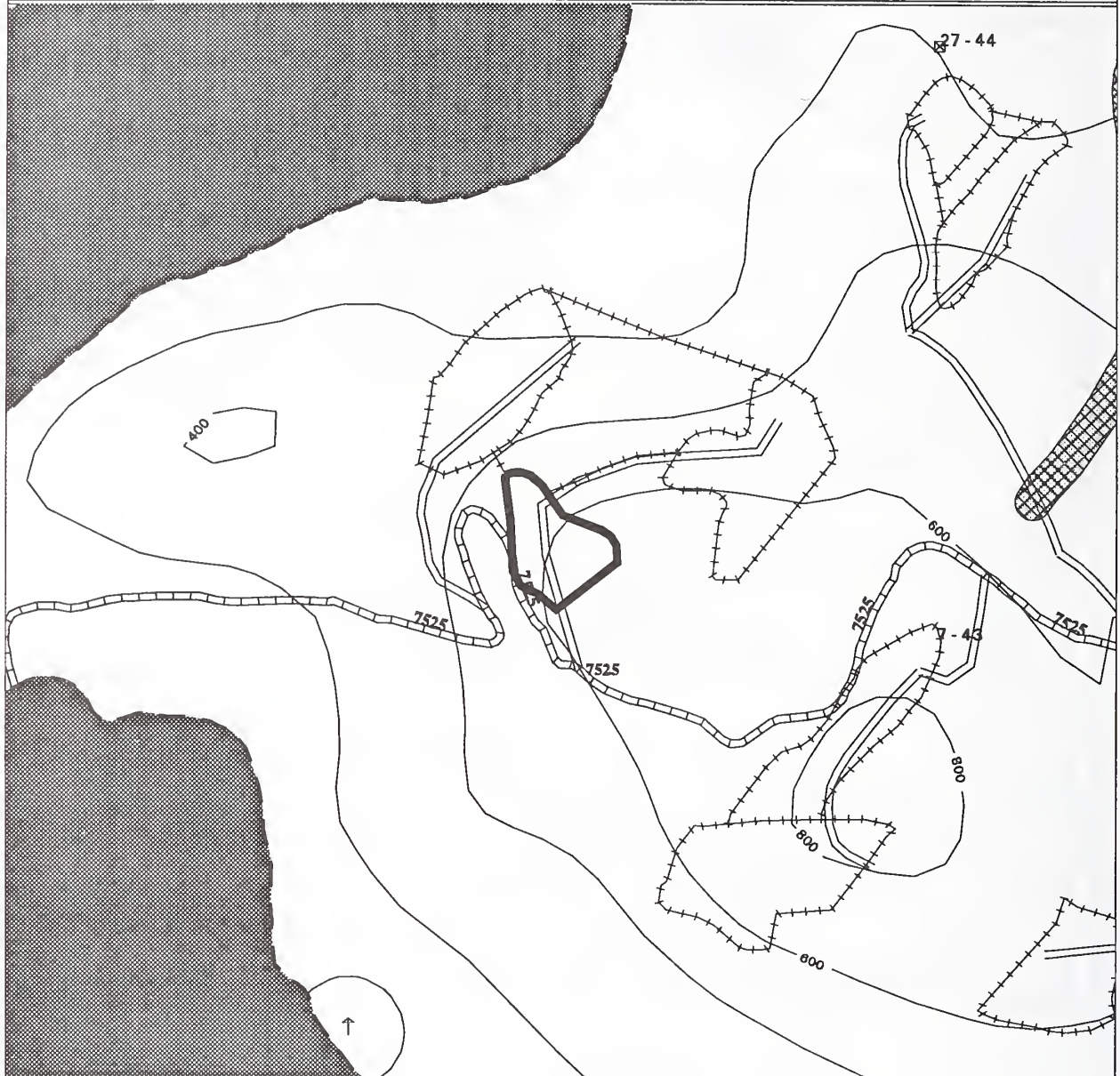
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 5004	VCU: 287
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is mixed conifer/blueberry, Silvicultural diagnosis for treatment is high canopy retention, Consider group selection, with groups smaller than 2 acres in size.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live skyline. Visual concerns. Profile not needed. Partial suspension attained. Group selection feasible with skyline due to short yarding distances & good deflection.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend group selections be made in areas which will avoid slopes steeper than 75 percent; directionally fall trees away from notches and maintain at least partial suspension over wet areas.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Mark v-notch in center of unit with orange/white flagging and protect as per BMP 13.3, category "B."	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Where possible maintain wildlife travel corridor across unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Do not move boundaries any closer to the beach.	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: <u>287</u>	UNIT NUMBER: <u>5005</u>	QUAD(s): <u>SITB5NW</u>
ACRES: <u>7</u>	VOLUME: <u>195</u> MBF	HARVEST VOLUME: <u>185</u> MBF
HARVEST PRESCRIPTION: <u>Clear Cut with Reserves</u>		PERCENT VOLUME HARVESTED: <u>95</u>

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



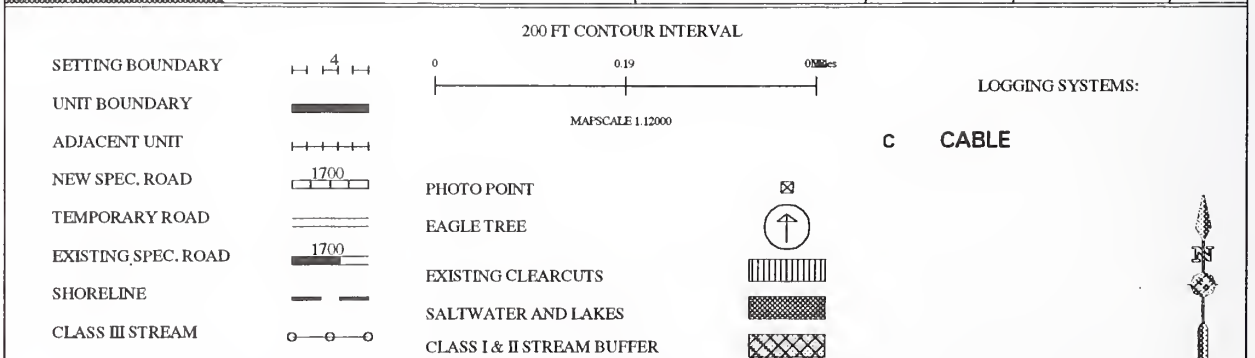
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 5005	VCU: 287
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis is low canopy retention, Clearcut with reserves.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No Concerns	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No soils concerns; recommend partial suspension to minimize surface disturbance.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: V-notches at the center of the unit (north side), and splitting the east half of the unit, should be marked in orange/white flagging, and protected as per BMP 13.3, category "B."	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 287 UNIT NUMBER: 5011 QUAD(s): SITB5NW
 ACRES: 12 VOLUME: 349 MBF HARVEST VOLUME: 331 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



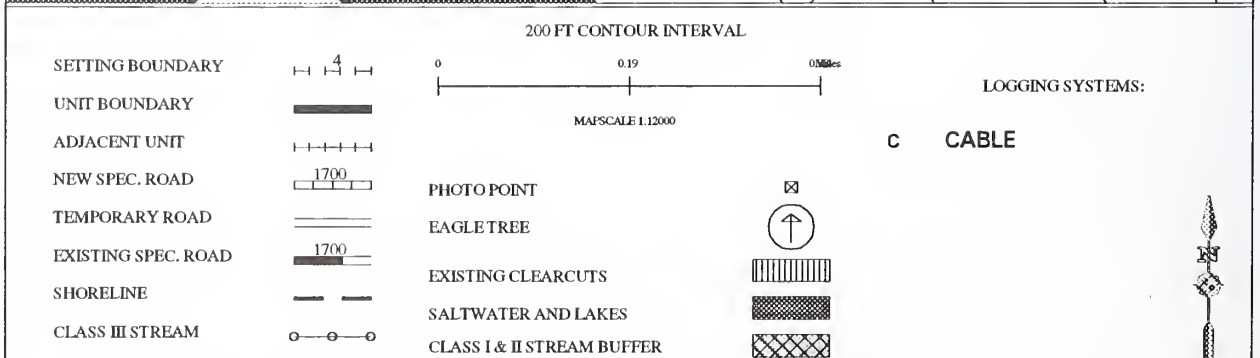
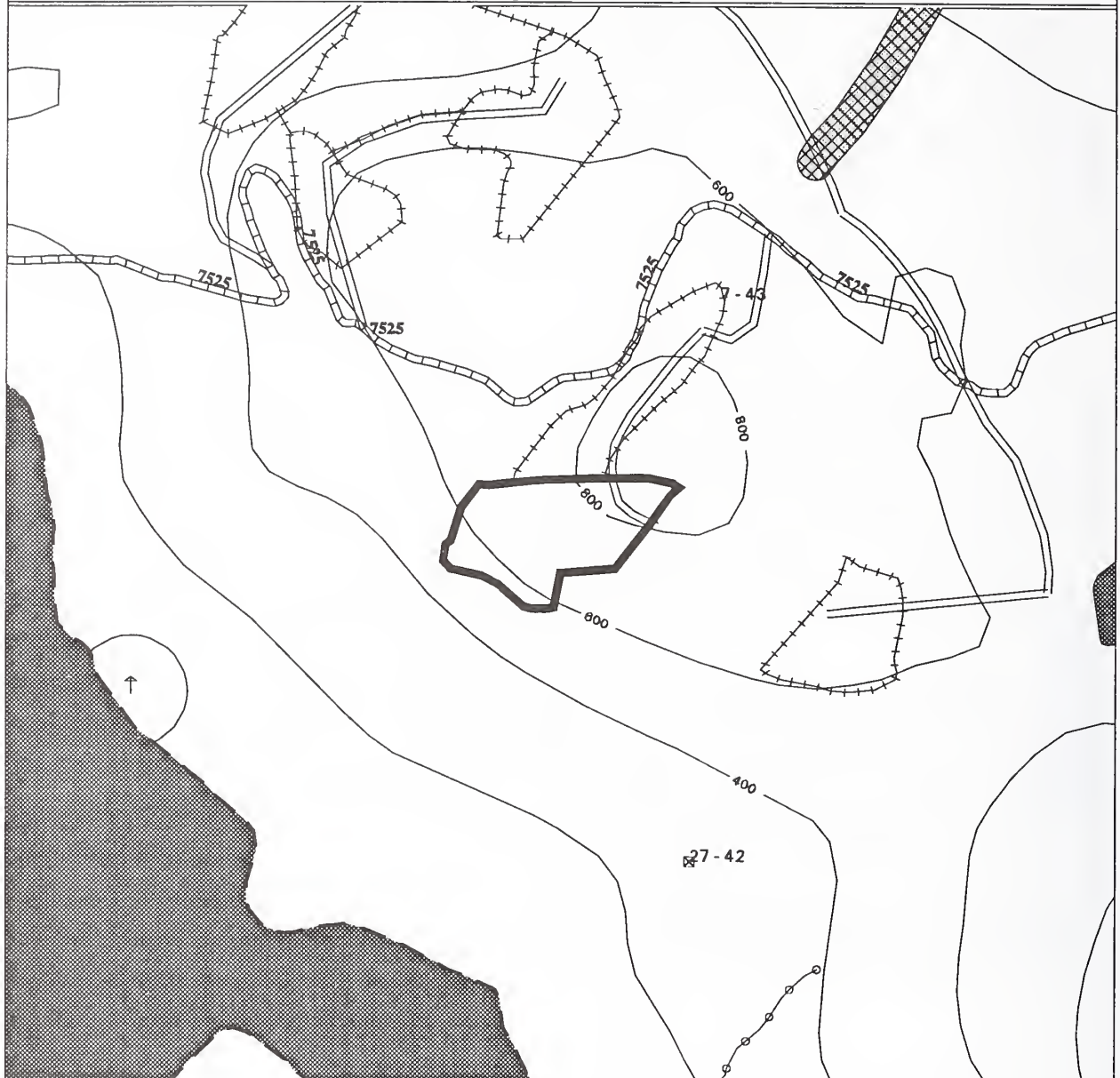
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 5011	VCU: 287/288
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis is low canopy retention, Light mistletoe infection in unit, Clearcut with reserves.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No Concerns. No profile needed.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No soils concerns; recommend partial suspension to minimize surface disturbance.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: V-notch on west boundary should be marked with orange/white flagging, and protected as per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit does not meet VQO. Feather and place reserves along western edge to assist in replicating natural openings.</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 287 UNIT NUMBER: 5012 QUAD(s): SITB5NW
 ACRES: 15 VOLUME: 383 MBF HARVEST VOLUME: 345 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 90

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 5012	VCU: 287
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis is low canopy retention, Light mistletoe infection in unit, Clearcut with reserves</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No Concerns. No profile needed.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No soils concerns; recommend partial suspension to minimize surface disturbance.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: V-notch on west boundary should be marked with orange/white flagging, and protected as per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit as planned does not meet VQO.</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

VCU: 288 UNIT NUMBER: 5013 QUAD(s): SITB5NW
 ACRES: 9 VOLUME: 227 MBF HARVEST VOLUME: 193 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.

SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM

200 FT CONTOUR INTERVAL
 0 0.19 0.38
 MAP SCALE 1:12000
 PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

C CABLE

LOGGING SYSTEMS:

NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 5013

VCU: 287/288

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Western hemlock-yellow cedar/blueberry and Western hemlock/blueberry, Silvicultural diagnosis is low canopy retention, Protect advanced regeneration where possible, Consider seed tree cut for cedar regen.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Live Skyline. No Concerns. Profile not needed.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: no concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Bad areas deleted; recommend at least partial suspension to protect remaining area.

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: A V-notch near the west boundary of the unit should be marked with orange/white flagging, and protected as per BMP 13.3, category "B."

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend leaving snags where possible

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed

REMARKS: Try to keep north and east boundaries from extending towards the Lake. Keep the unit to the southwest of the ridgeline to reduce visual impacts to the lake.

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6271 QUAD(s): SITB5SW

ACRES: 30 VOLUME: 849 MBF HARVEST VOLUME: 594 MBF

HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 70

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL

0 0.19 0.38 Miles

MAP SCALE 1:12000

LOGGING SYSTEMS:

C CABLE

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



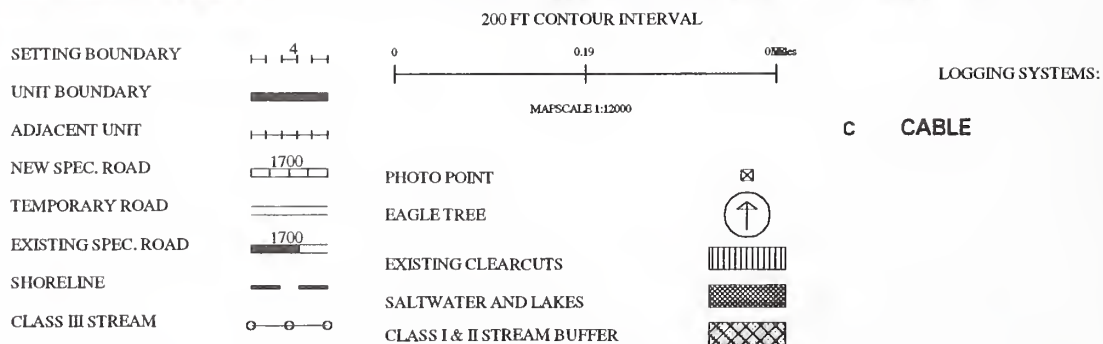
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6271	VCU: 302
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is medium canopy retention, Consider overstory removal for visual concerns and to retain a portion of understory/overstory. Lower unit has wetter soils.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. 40 foot tall trees needed. Profiles run from Landing 1,2. Full suspension not feasible, Rx modification & partial suspension for visual concerns.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Bad areas deleted; recommend at least partial suspension to protect remaining area.</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: V-notch near NE corner should be marked in orange/white flagging, and protected as per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Very high subsistence value. High habitat value. Recommend leaving snags where possible</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS:</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Do not move boundaries any closer to the beach.</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: Archeologist REMARKS: An archeologist should be notified at the final design stage for unit 6271. Working with other specialists, the archeologist needs to confirm that nearby historic properties will not be damaged indirectly by harvest.</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6272 QUAD(s): SITB5SW
 ACRES: 14 VOLUME: 367 MBF HARVEST VOLUME: 73 MBF
 HARVEST PRESCRIPTION: Group Selection PERCENT VOLUME HARVESTED: 20

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6272

VCU: 302

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Western hemlock/blueberry, Silvicultural
 diagnosis for treatment is high canopy retention, Consider group selection
 with groups less than 2 acres.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Live Skyline. Visual concerns. Profiles not needed.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: no concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No soils concerns; recommend at least partial suspension to minimize
 surface disturbance.

{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: V-notches at the west boundary, in the center of the unit, and at the
 NE corner, should be marked in orange/white flagging, and protected as per BMP
 13.3, category "B." Maintain a 100', vegetated buffer of non-commercial trees
 between the unit and the four small ponds south of the unit. Include
 commercial trees within the buffer if their removal will disturb soils or
 damage residual non-commercial trees (BMP 13.16).

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Very high subsistence value. Where possible maintain wildlife travel
 corridor across unit

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Do not move boundaries any closer to the beach.

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

VCU: 302 UNIT NUMBER: 6281 QUAD(s): SITB5SW
 ACRES: 31 VOLUME: 787 MBF HARVEST VOLUME: 748 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.

The map displays a logging unit (VCU 302, Unit 6281) within the SITB5SW quad. The unit boundary is a thick black line. The setting boundary is a dashed line. The map shows a network of roads, including a new special road (dashed line with cross-ticks) and temporary roads (thin solid lines). A Class III stream is shown as a line with circles. The map also depicts existing clearcuts (hatched areas), saltwater and lakes (stippled areas), and Class I & II stream buffers (cross-hatched areas). The terrain is shown with contour lines at a 200-foot interval, with labels for 400 and 280 feet. A scale bar indicates a map scale of 1:12,000, with a distance of 0.19 miles. The map is oriented with North at the top.

200 FT CONTOUR INTERVAL

SETTING BOUNDARY

UNIT BOUNDARY

ADJACENT UNIT

NEW SPEC. ROAD

TEMPORARY ROAD

EXISTING SPEC. ROAD

SHORELINE

CLASS III STREAM

MAP SCALE 1:12000

LOGGING SYSTEMS:

C CABLE

PHOTO POINT

EAGLE TREE

EXISTING CLEARCUTS

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

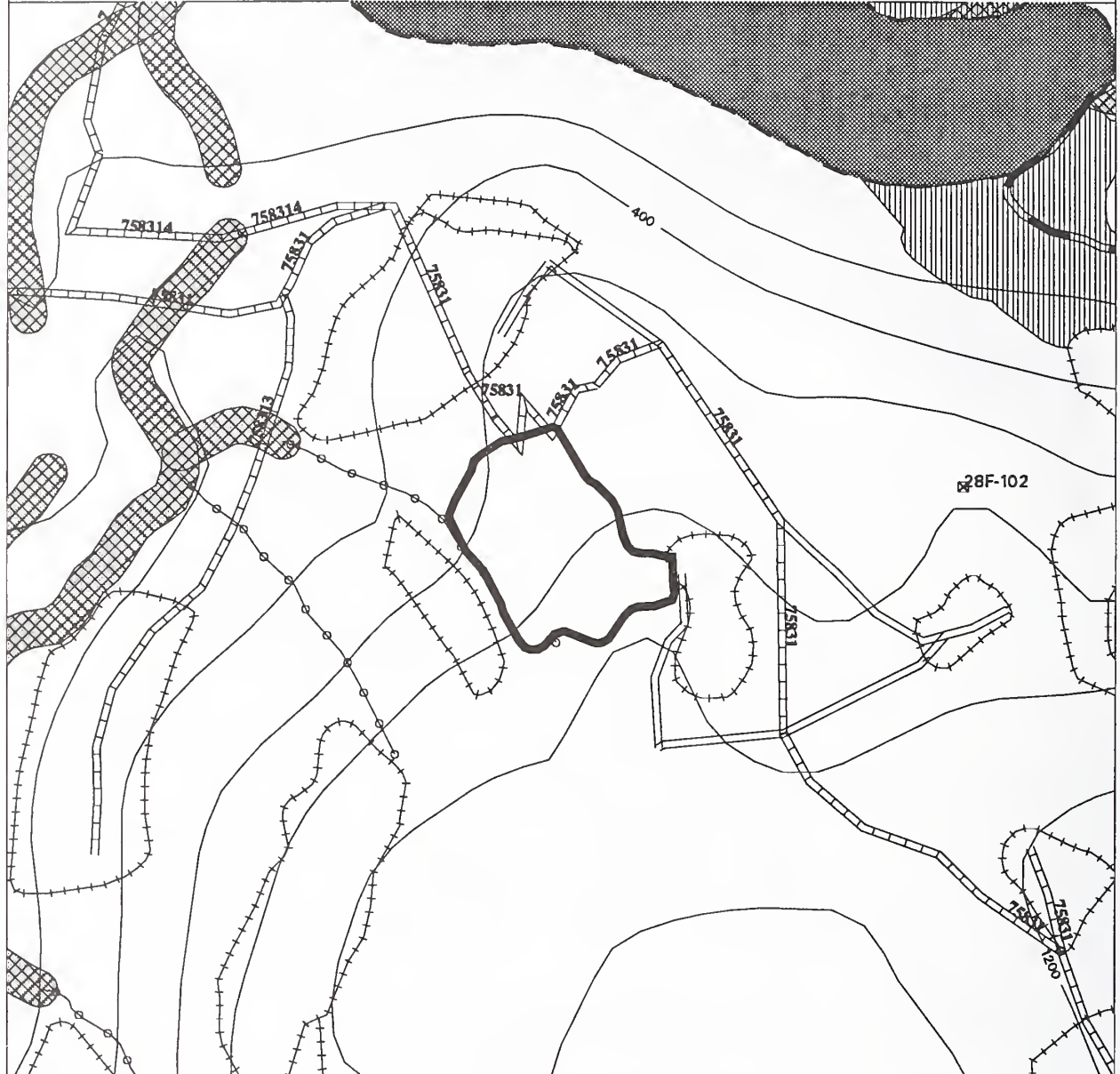
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6281	VCU: 302
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves. Minimum of partial suspension recommended due to swales, surface rock in places.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Profiles run from Landing 2. Partial suspension attained. 40 foot tail trees needed.</p>	
<p>{ LANDS } FIELD REVIEWED: RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Adjust backline to avoid oversteepened knob; splityard on v-notch near center of unit and remove any debris introduced into notches; recommend full suspension</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist to determine extent of class II fish habitat. REMARKS: V-notches mark the north, east and south boundaries. These should be protected as per BMP 13.3, category "B." Two v-notches that split the northern half of the unit from east to west, should be marked in orange/white flagging, then protected as per BMP 13.3, category "B." A stream flowing from the center of the west boundary, and one from the SW corner are class II fish streams, and require protection as per BMP 12.6a and 12.6. The extent of class II fish habitat on several other small seeps and rills in the wetland should be established during layout. There are 3.2 acres of emergent wetland within the unit along the west boundary. The unit should be laid out to avoid all emergent wetland habitat to protect water quality.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Measure the 500-foot beach fringe buffer to unit. High subsistence value. High habitat value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: Landscape Architect REMARKS: Unit as planned does not meet VQO. Feather and cluster reserves along western boundary.</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: <u>302</u>	UNIT NUMBER: <u>6282</u>	QUAD(s): <u>S1TB5SW</u>	
ACRES: <u>23</u>	VOLUME: <u>677</u> MBF	HARVEST VOLUME: <u>474</u> MBF	
HARVEST PRESCRIPTION: <u>Overstory Removal</u>		PERCENT VOLUME HARVESTED: <u>70</u>	

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY	
UNIT BOUNDARY	
ADJACENT UNIT	
NEW SPEC. ROAD	
TEMPORARY ROAD	
EXISTING SPEC. ROAD	
SHORELINE	
CLASS III STREAM	

0 0.19 0.38 Miles

MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT	
EAGLE TREE	
EXISTING CLEARCUTS	
SALTWATER AND LAKES	
CLASS I & II STREAM BUFFER	

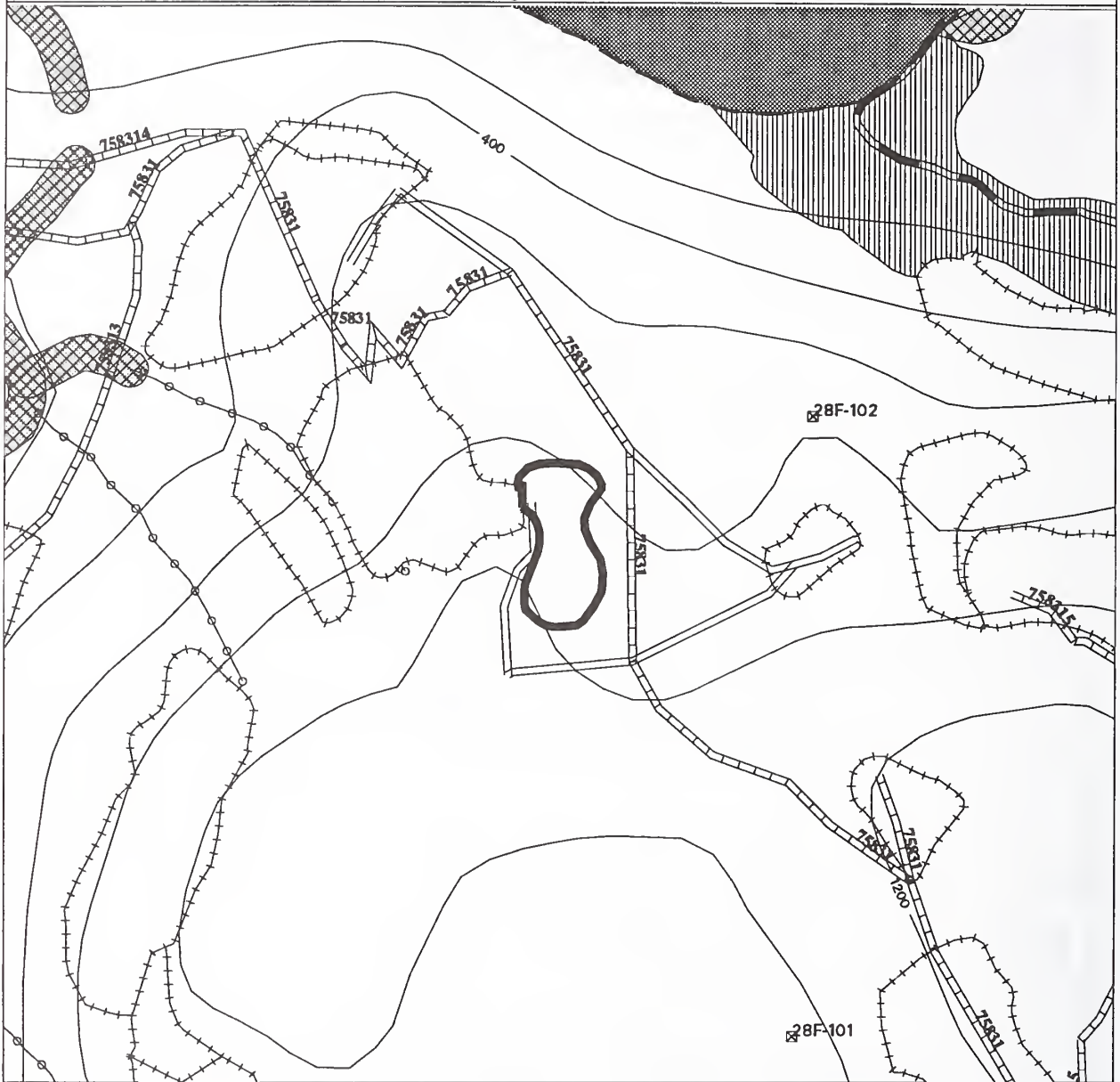
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6282	VCU: 302
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Sitka spruce/blueberry, Silvicultural diagnosis for treatment is medium canopy retention, Consider overstory removal to retain vigorous understory and a portion of overstory.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. Soils concerns.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit contains v-notches and some blowdown; recommend directional falling away from notches; full suspension will be provided by helicopter logging.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist or Hydrologist REMARKS: Place south unit boundary at or above the slope break of the class III, HC6 channel to protect downstream fish habitat, and designate as category "B" stream (BMP 13.3). Note that the proposed SW corner of the unit encompasses a fork of this stream. Full suspension should be required for logging over this channel. The west unit boundary runs along an unmapped, class III stream. This stream should be protected as per BMP 13.3, category "B."	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. High habitat value. Recommend leaving snags where possible	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6283 QUAD(s): SITB5SW
 ACRES: 8 VOLUME: 229 MBF HARVEST VOLUME: 218 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM

200 FT CONTOUR INTERVAL
 0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

C CABLE



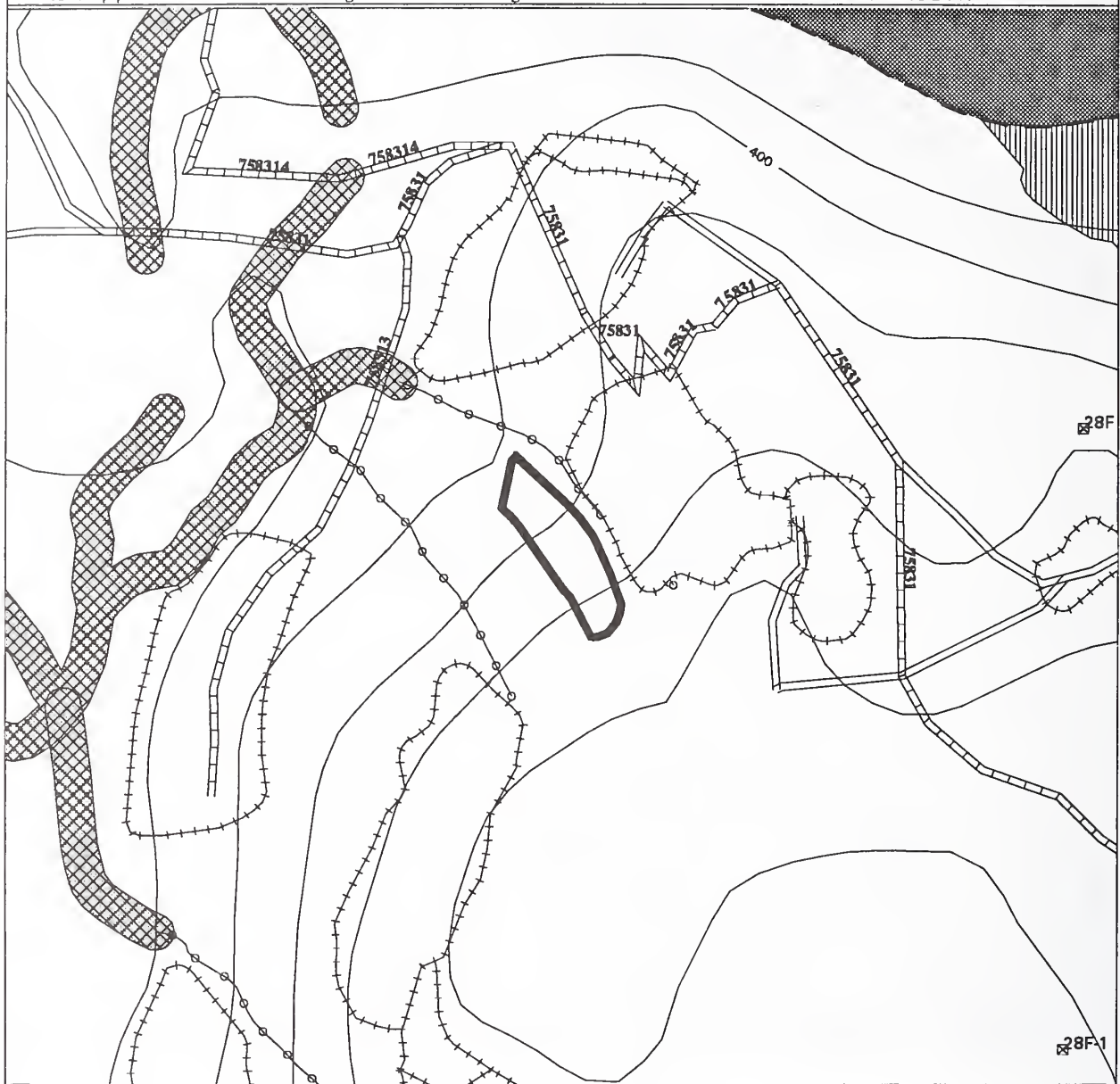
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6283	VCU: 302
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves. Protect regen. to the extent possible. Consider planting cedar if inadequate natural regen.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Profiles run from Landing 1. Partial suspension attained. Artificial anchors required on Landing 1. 40 ft tail trees needed. Soils concerns.</p>	
<p>{ LANDS } FIELD REVIEWED: NO RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend at least partial suspension to protect wet soils.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Mark v-notch in center of unit with orange/white flagging, and protect as per BMP 13.3, category "B." There are 0.6 acre of mapped emergent wetland habitat within this unit. Emergent wetland habitat should be dropped from the unit to protect water quality (BMP 13.16).</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6291 QUAD(s): SITB5SW
 ACRES: 7 VOLUME: 204 MBF HARVEST VOLUME: 102 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 50

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6291	VCU: 302
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Sitka spruce/blueberry, Silvicultural diagnosis for treatment is high canopy retention, Consider overstory removal to remove only higher-risk and leaning trees, while maintaining slope stability.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit contains v-notches; recommend directional falling away from notches; full suspension will be provided by helicopter logging.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Mark and protect two large v-notches (BMP 13.3, category "B") that flow from the unit to the mapped, class III, HC6 channel SW of unit. Maintain unit boundary at or above the slope break of the class III, HC6 channel on the NE boundary.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. High habitat value. Recommend leaving snags where possible	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6293 QUAD(s): SITB5SW
 ACRES: 28 VOLUME: 775 MBF HARVEST VOLUME: 698 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 90

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM

0 0.19 0.58 Miles
 MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

C CABLE



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6293	VCU: 302
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is medium canopy retention, Consider overstory removal for visual concerns.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No profiles run. Soils concerns.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend at least partial suspension to protect soils.</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist to review TTRA implementation. REMARKS: Class I MC1 channel, and Class II AF2 channel near lower unit boundary should be protected as per BMP 12.6a and 12.6. Several small tributaries to the east of the MC1 channel have been marked with blue/white flagging to indicate the extent of fish habitat. Protect as per BMP 12.6a and 12.6 if these reach the lower unit boundary. Unmapped class III, HC6 channels on the north and south boundaries should be protected as per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Very high subsistence value. High habitat value. Recommend leaving snags where possible</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: Archeologist REMARKS: An archeologist should be notified at the final design stage for unit 6293. Working with other specialists, the archeologist needs to confirm that nearby historic properties will not be damaged indirectly by harvest.</p>	

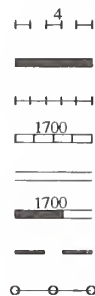
NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6294 QUAD(s): SITB5SW
 ACRES: 28 VOLUME: 830 MBF HARVEST VOLUME: 664 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 80

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.

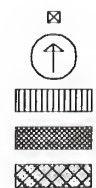


SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM



200 FT CONTOUR INTERVAL
 0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6294	VCU: 302
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Sitka spruce/blueberry, Silvicultural diagnosis for treatment is medium canopy retention, Consider overstory removal to retain vigorous understory.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. Soils concerns.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker SPECIALISTS NEEDED DURING LAYOUT: None needed REMARKS: Recommend as a helicopter unit; avoid harvest in remnant slides; remove any debris introduced into notches during harvest	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Maintain boundary at or above the slope break of the class III, HC6 stream on the north boundary, and the unmapped HC6 channel on the south boundary. Mark v-notch in center of unit in orange/white, and protect as per BMP 13.3, category "B."	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6301 QUAD(S): SITB5SW
 ACRES: 22 VOLUME: 656 MBF HARVEST VOLUME: 525 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 80

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



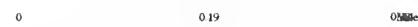
EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



MAP SCALE 1:12000

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6301

VCU: 302

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Sitka spruce/blueberry/skunk cabbage,
 Silvicultural diagnosis for treatment is medium canopy retention, Consider
 overstory removal to protect regen and soils, which are rocky. Full
 suspension recommended.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Helicopter yarding required. Soils concerns.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend split yarding on v-notches, full suspension on slopes
 steeper than 45% to protect wet soils, and at least partial suspension
 elsewhere .

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Five v-notches bisect unit. Mark with orange/white flagging and
 protect as per BMP 13.3, category "B."

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: High subsistence value. Recommend leaving snags where possible


{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective


{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns


{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area


VCU: 302 UNIT NUMBER: 6303 QUAD(s): SITB5SW
ACRES: 4 VOLUME: 101 MBF HARVEST VOLUME: 96 MBF
HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95


This topographic map shows the area around the locations 28F-102 and 28F-101. The map features contour lines with elevations of 400, 600, 800, and 1000. A river, labeled '75831', flows from the top right towards the bottom right. A large, irregularly shaped area is shaded with vertical lines, and a smaller area is shaded with a cross-hatch pattern. A road or path, marked with a dashed line and labeled '75831', runs from the top left towards the center. A small, irregularly shaped area is outlined with a thick black line. The locations 28F-102 and 28F-101 are marked with small squares and labeled. The map also shows various other contour lines and shaded regions, including a large area with a cross-hatch pattern in the top right corner.

PHOTO POINT 

EAGLE TREE 

EXISTING CLEARCUTS 

SALTWATER AND LAKES 

CLASS I & II STREAM BUFFER 



NORTHWEST BARANOF HARVEST UNIT CARD

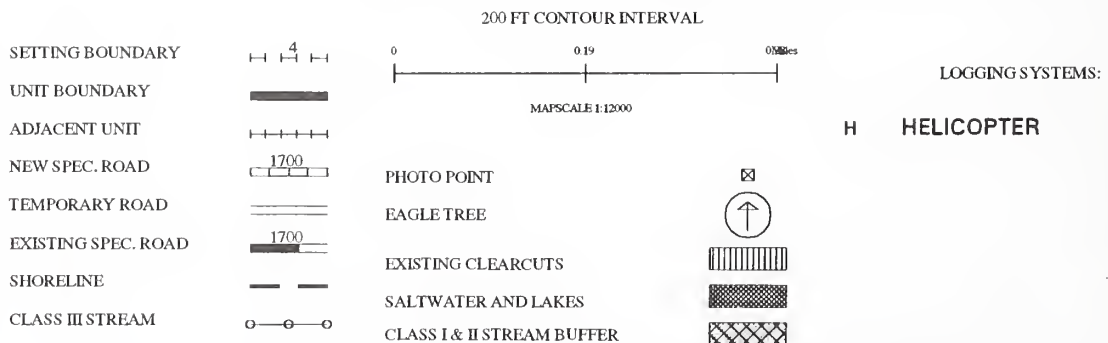
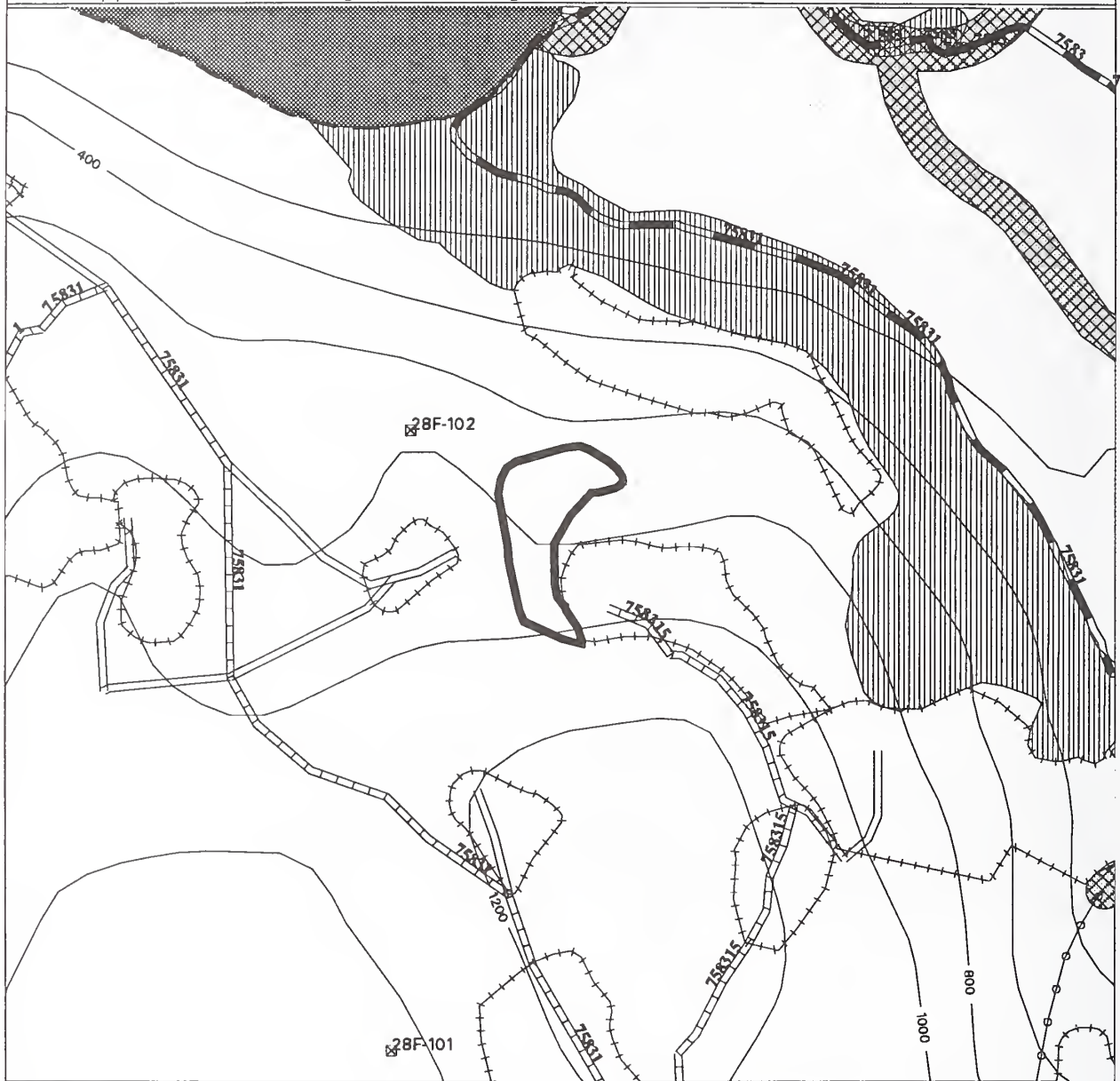
UNIT: 6303	VCU: 302
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is mixed conifer/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Protect soils where possible, Clearcut with reserves. Consider planting cedar.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skline. Soils concerns. No profiles run.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend split yarding on v-notches, full suspension over wet areas steeper than 45% and over cliffs, and at least partial suspension elsewhere.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD

PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6304 QUAD(s): SITB5SW
 ACRES: 9 VOLUME: 227 MBF HARVEST VOLUME: 182 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 80

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



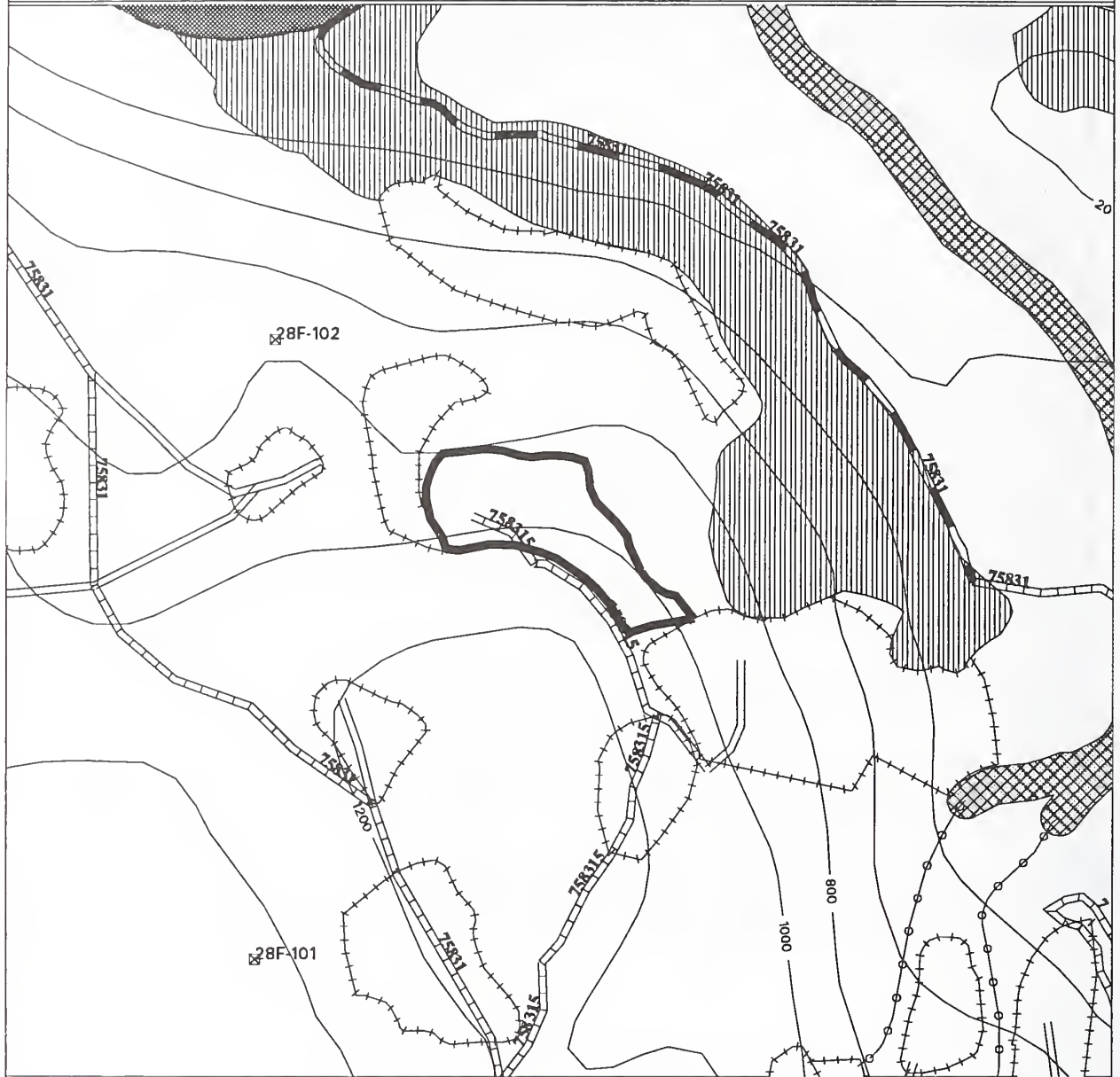
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6304	VCU: 302
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is mixed conifer/blueberry, Silvicultural diagnosis for treatment is medium canopy retention, Consider overstory removal to release regen. Full suspension recommended.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. Soils concerns.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend split yarding on v-notches, full suspension over wet areas on slopes steeper than 45% and on other slopes steeper than 70%, and partial suspension elsewhere; ensure south boundary is above slope break of v-notch	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Mark v-notch/rill in center of unit with orange/white flagging, and protect as per BMP 13.3, category "B."	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6305 QUAD(s): SITB5SW
 ACRES: 17 VOLUME: 429 MBF HARVEST VOLUME: 300 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 70

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL

0 0.19 0.38 Miles

MAP SCALE 1:12000

LOGGING SYSTEMS:

C CABLE

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



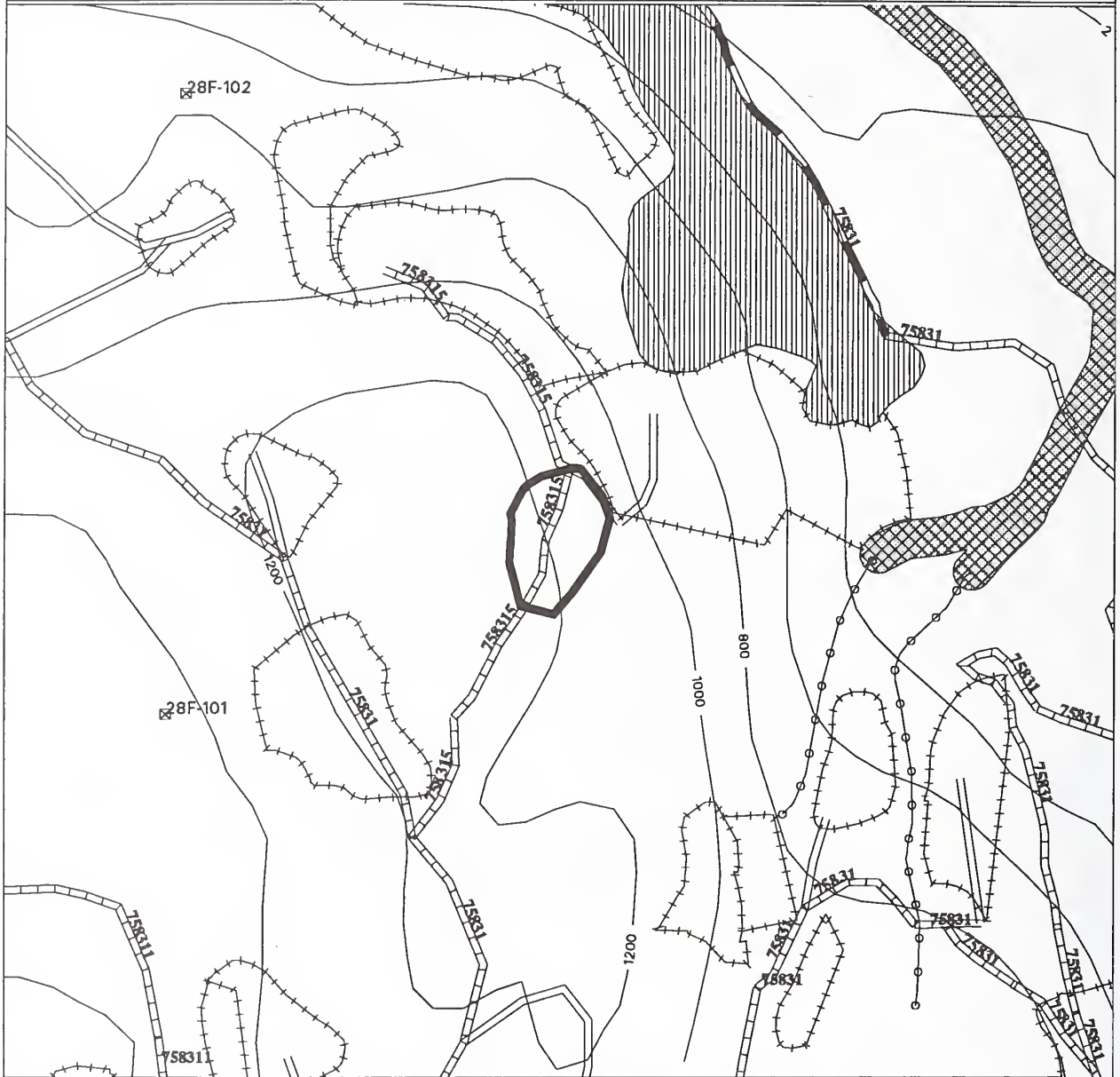
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6305	VCU: 302
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Sitka spruce-mountain hemlock/blueberry, silvicultural diagnosis for treatment is medium canopy retention, Consider overstory removal to release regen and protect shallow, rocky soils.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No profile run. Some soil concerns. Artificial anchors required.</p>	
<p>{ LANDS } FIELD REVIEWED: Yes RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend split yarding on v-notches, full suspension on slopes over 45%, and partial suspension elsewhere</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Protect v-notch near SE boundary as per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6306 QUAD(s): SITB5SW
 ACRES: 8 VOLUME: 202 MBF HARVEST VOLUME: 141 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 70

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



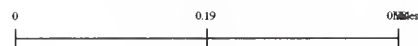
EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



MAP SCALE 1:12000

LOGGING SYSTEMS:

c CABLE

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6306

VCU: 302

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Sitka spruce-mountain hemlock/blueberry,
~~Silvicultural diagnosis for treatment is medium canopy retention, Consider~~
 overstory removal to release regen and retain portion of overstory, as well as
 protect wet, shallow soils.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Live Skyline. Will have some extra costs. Profiles not run.
 Artificial anchors required.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend split yarding on v-notches, full suspension on slopes over
 45%, and partial suspension elsewhere

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No concerns.

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: High subsistence value. Recommend leaving snags where possible

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

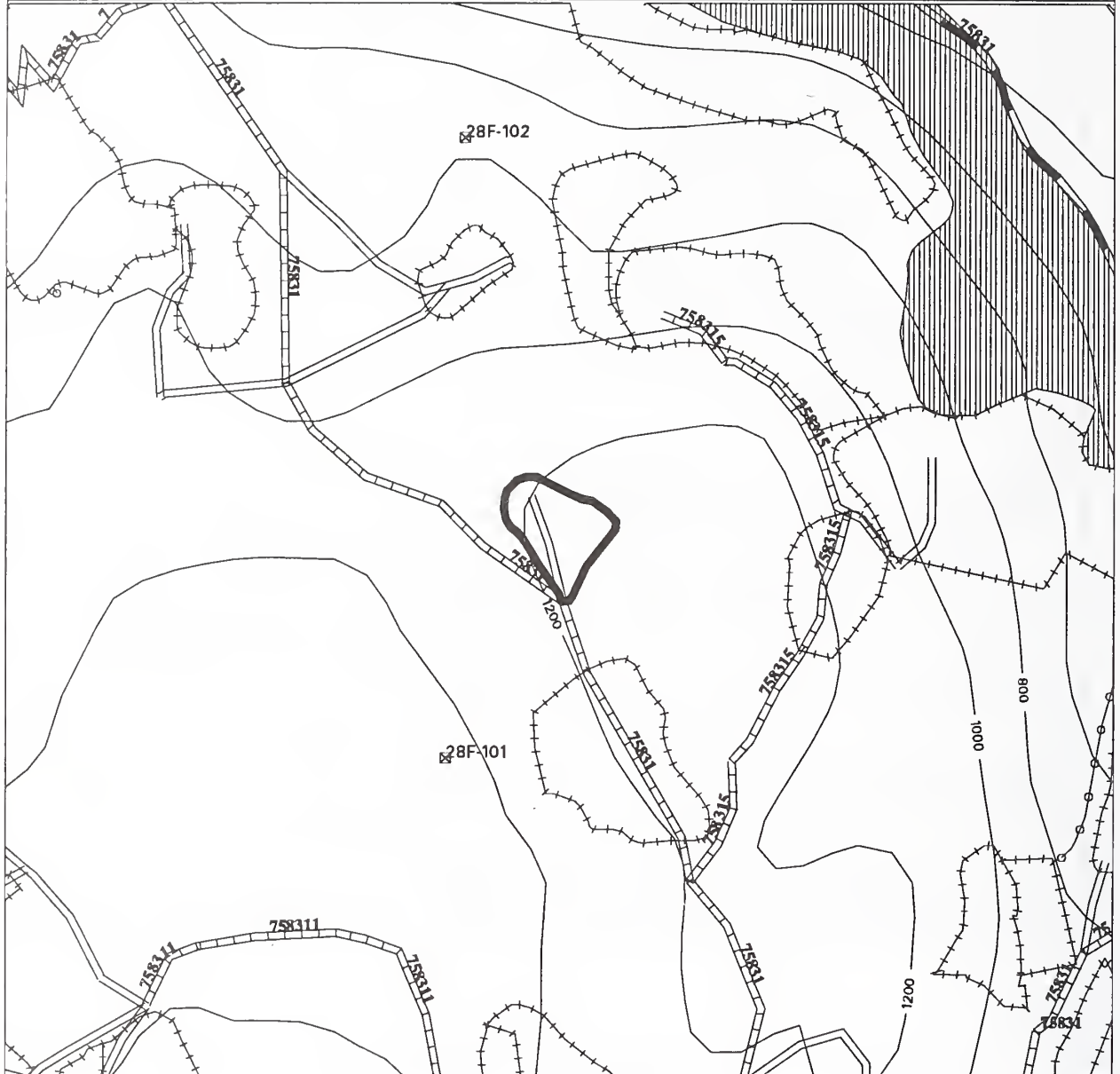
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6321 QUAD(s): SITB5SW
 ACRES: 6 VOLUME: 151 MBF HARVEST VOLUME: 136 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 90

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



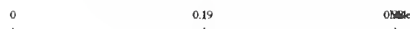
SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL



MAP SCALE 1:12000

LOGGING SYSTEMS:

C CABLE

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



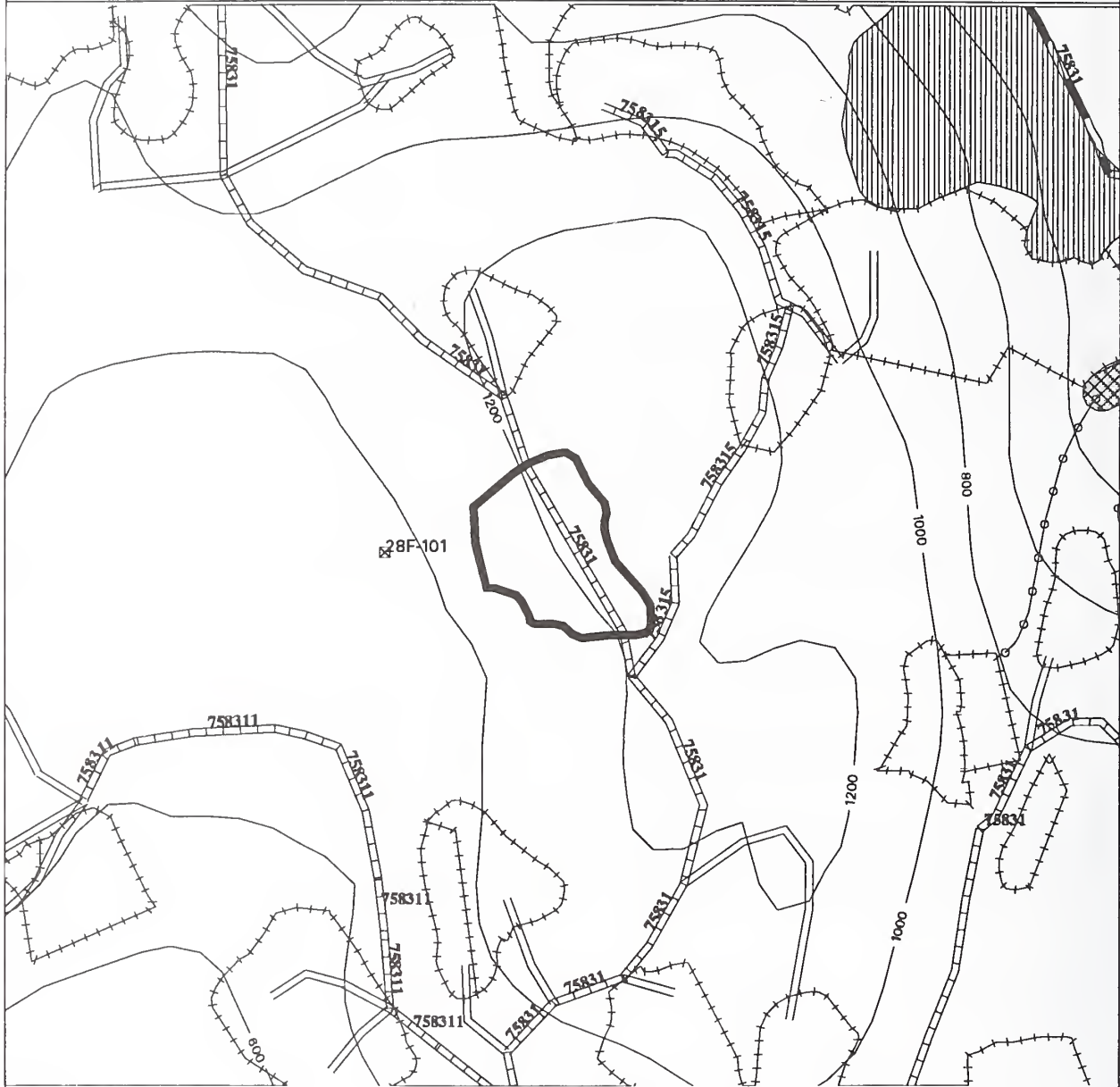
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6321	VCU: 302
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Sitka spruce/blueberry. Treatment diagnosis is low canopy retention. Clearcut with reserves.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No Concerns. No profiles run.</p>	
<p>{ LANDS } FIELD REVIEWED: Yes RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No soils concerns; recommend partial suspension to minimize surface disturbance.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Protect v-notch in center of unit as per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6322 QUAD(s): SITB5SW
 ACRES: 16 VOLUME: 404 MBF HARVEST VOLUME: 363 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 90

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER

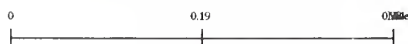


LOGGING SYSTEMS:

C CABLE



MAP SCALE 1:12000



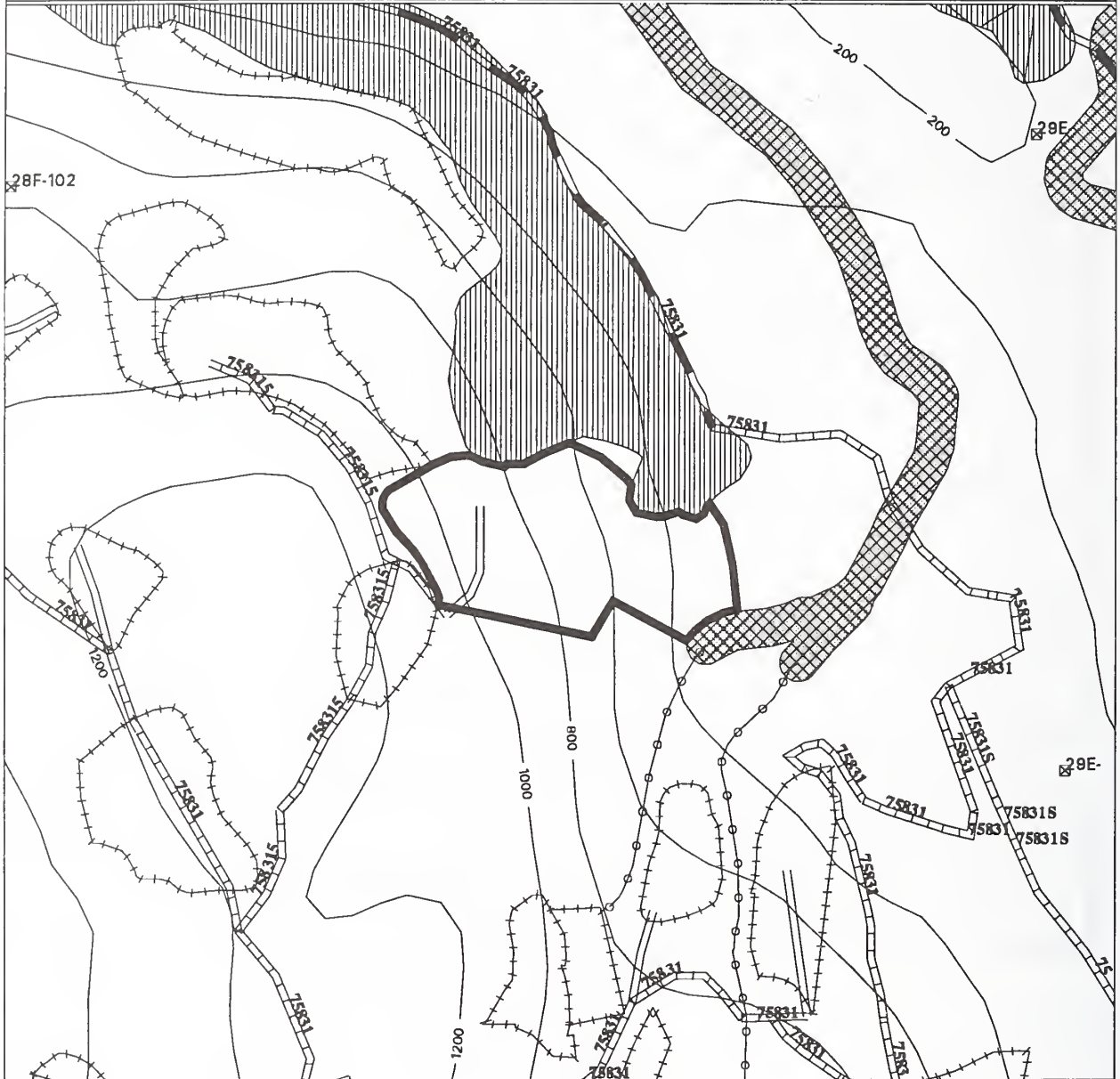
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6322	VCU: 302
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Sitka spruce/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves. Small bluffs in unit.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Profiles run from Landing 2. Partial suspension attained. 40 foot tail trees needed. Artificial anchors required on Landing 2.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit contains rocky soils; recommend at least partial suspension to minimize surface disturbance.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Protect v-notches on the west and SW boundaries as per BMP 13.3, category "B."	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6331 QUAD(s): SITB5SW
 ACRES: 36 VOLUME: 908 MBF HARVEST VOLUME: 727 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 80

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM

200 FT CONTOUR INTERVAL
 0 0.19 0.38
 MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:
 c CABLE



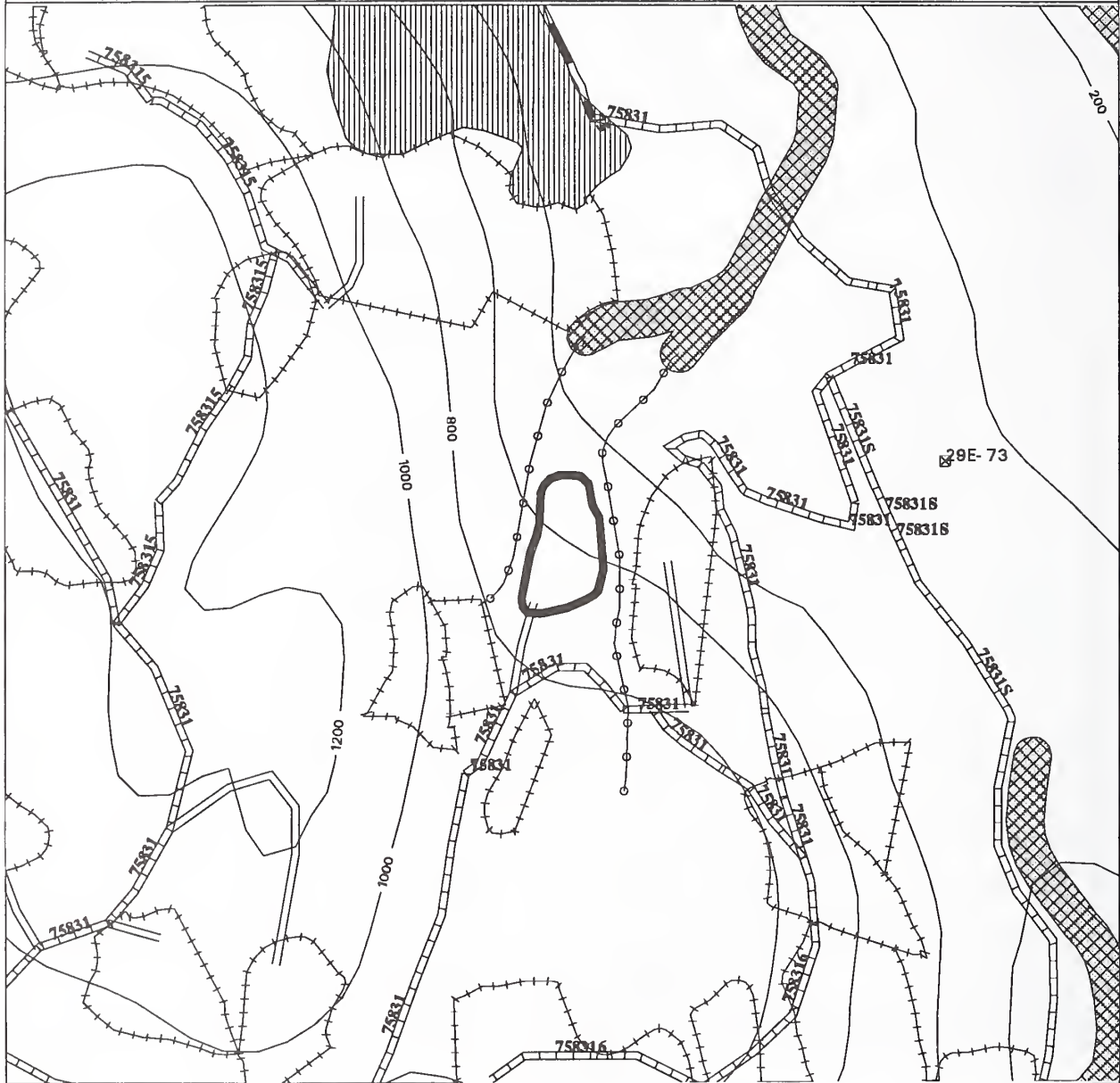
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6331	VCU: 302
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Sitka spruce-mountain hemlock/blueberry, silvicultural diagnosis for treatment is medium canopy retention, Consider overstory removal. Full suspension desirable to protect shallow, wet soils.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Soils Concerns. Profiles run from Landing 2. Partial suspension attained. 60 foot tail trees needed.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: The worst areas already deleted; recommend full suspension on slopes steeper than 70 percent and at least partial suspension elsewhere.	
{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist REMARKS: Class I habitat on FP3 and AF1 channels have been marked in blue/white flagging, as well as smaller unmapped channels. Protect as per BMP 12.6a and 12.6. Three v-notches that bisect the unit should be marked in orange/white flagging, and protected as per BMP 13.3, category "B." Place south boundary at or above the slope break of the tributary that flows into the class I, FP3 channel.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6332 QUAD(s): SITB5SW
 ACRES: 7 VOLUME: 177 MBF HARVEST VOLUME: 168 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



0

0.19

0.38 Miles

200 FT CONTOUR INTERVAL

MAP SCALE 1:12000

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

C CABLE



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6332	VCU: 302
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist REMARKS: Plant association is mountain hemlock/copperbush/cassiope, silvicultural diagnosis for treatment is low canopy retention, Protect soils where possible, Clearcut with reserves. Buffer draws on both sides of unit.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No Concerns. No profiles run. Artificial anchors required.</p>	
<p>{ LANDS } FIELD REVIEWED: Yes RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No soils concerns.</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Downstream class I and II fish habitat has been marked in blue/white flagging on the mapped channels that flow on the west and east boundaries. No fish habitat reaches the unit. Place boundaries at or above the slope break of the HC6 channels, and protect as per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

VCU: 302 UNIT NUMBER: 6333 QUAD(s): SITB5SW
 ACRES: 11 VOLUME: 278 MBF HARVEST VOLUME: 250 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 90

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.

200 FT CONTOUR INTERVAL		0 0.19 0.38 Miles		LOGGING SYSTEMS:	
SETTING BOUNDARY		MAP SCALE 1:12000		C CABLE	
UNIT BOUNDARY					
ADJACENT UNIT					
NEW SPEC. ROAD					
TEMPORARY ROAD					
EXISTING SPEC. ROAD					
SHORELINE					
CLASS III STREAM					
		PHOTO POINT			
		EAGLE TREE			
		EXISTING CLEARCUTS			
		SALTWATER AND LAKES			
		CLASS I & II STREAM BUFFER			

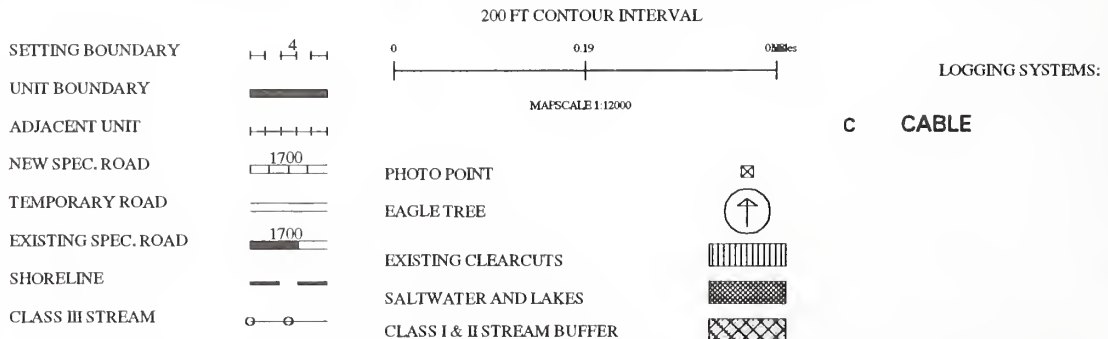
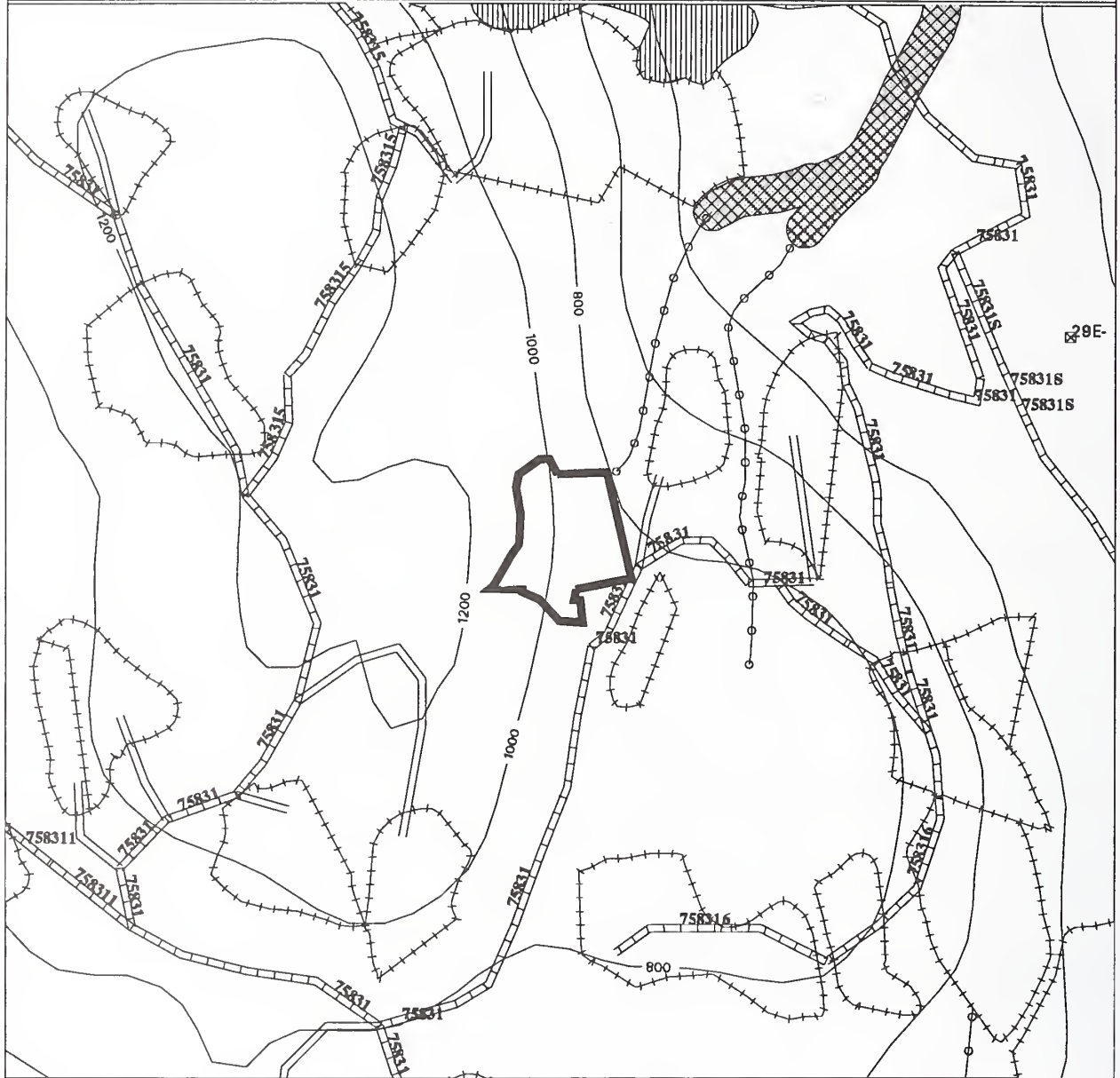
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6333	VCU: 302
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Sitka spruce-mountain hemlock/blueberry, silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves. Consider planting cedar.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Slope limit 60 % for harvest. No profiles run. Soils concerns.</p>	
<p>{ LANDS } FIELD REVIEWED: Yes RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: The worst areas have been deleted but some oversteep and unstable areas remain; recommend full suspension to protect soils.</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist to review TTRA buffers. REMARKS: Fish habitat has been marked in blue/white flagging in the emergent wetland and stream channels at the base of this unit. Protect as per BMP 12.6a and 12.6. Protect v-notches on the east and west boundaries as per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. High habitat value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6334 QUAD(s): SITB5SW
 ACRES: 11 VOLUME: 278 MBF HARVEST VOLUME: 264 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6334

VCU: 302

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Sitka spruce/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Plant association is mountain hemlock/blueberry, Clearcut with reserves. Light mistletoe infection.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Live Skyline. Partial suspension required. Soils concerns. No profiles run. Add on & yard everything to road East of unit.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend at least partial suspension to protect steep and unstable areas; recommend full suspension on slopes steeper than 70 percent.

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No concerns.

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: High subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

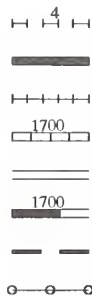
NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6341 QUAD(s): SITB5SW
 ACRES: 36 VOLUME: 1073 MBF HARVEST VOLUME: 537 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 50

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM



200 FT CONTOUR INTERVAL

0 0.19 0.38 Miles

MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6341	VCU: 302
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is medium canopy retention, Consider overstory removal for visual concerns as well as retention of a portion of overstory and understory. High blowdown incidence in area.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. Soils concerns. Visual concerns.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Directionally fall trees away from notches; full suspension will be provided by helicopter logging.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: A v-notch that splits the northern part of the unit should be marked in orange/white flagging, and protected as per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Very high subsistence value. High habitat value. Recommend leaving snags where possible</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Do not move boundaries any closer to the beach.</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

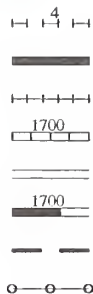
NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6342 QUAD(s): SITB5SW
 ACRES: 13 VOLUME: 337 MBF HARVEST VOLUME: 202 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 60

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.

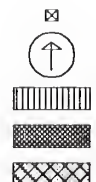


SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM



200 FT CONTOUR INTERVAL
 0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

H HELICOPTER
 C CABLE



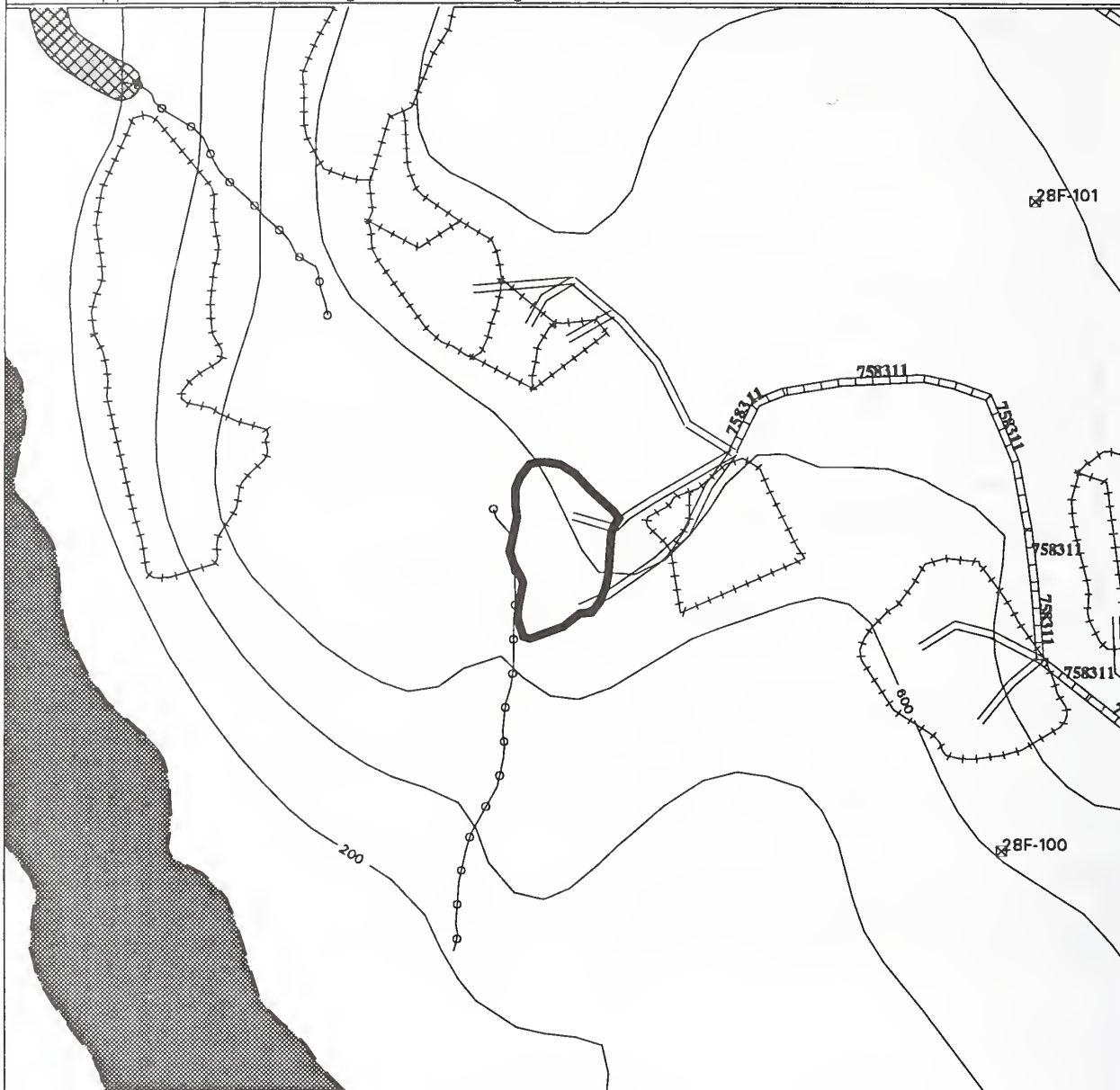
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6342	VCU: 302
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is medium canopy retention, Consider overstory removal for visual concerns as well as to retain portion of overstory and understory.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live skyline on 4 acres. Helicopter yarding on the rest of unit. Full suspension required. Soils concerns.	
{ LANDS } FIELD REVIEWED: Yes RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend this unit as a partial cut using a helicopter to protect oversteepened areas, v-notches, and remnant slides	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Place unit boundary above the slope break on the v-notches that lead into the class III, HC6 channels on the west end of the proposed unit.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6343 QUAD(s): SITB5SW
 ACRES: 11 VOLUME: 319 MBF HARVEST VOLUME: 271 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM

200 FT CONTOUR INTERVAL
 0 0.19 0.38
 MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

C CABLE



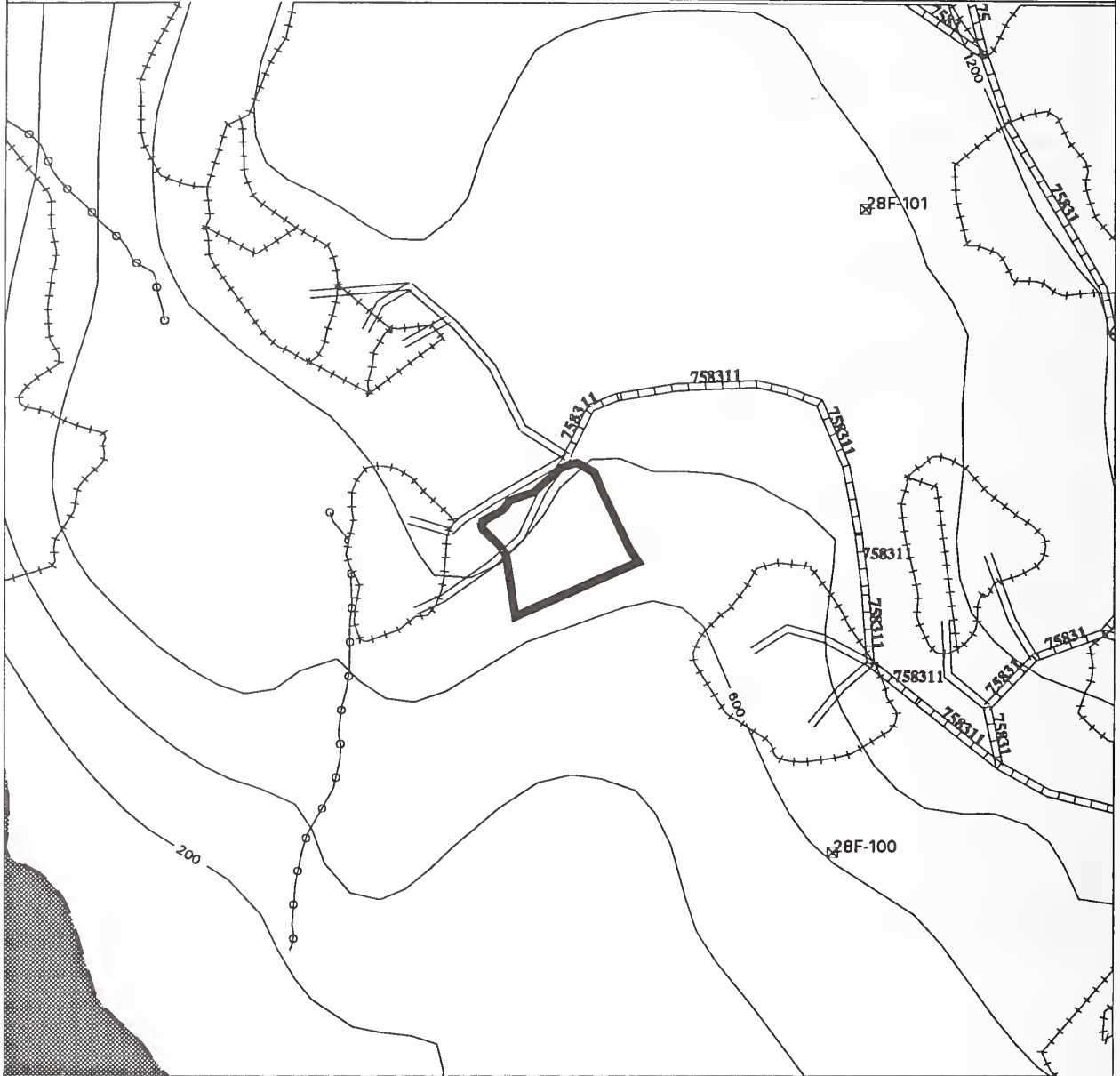
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6343	VCU: 302
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is western hemlock/blueberry and western hemlock-Alaska cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Consider seed tree cut for cedar regen.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No profiles run.</p>	
<p>{ LANDS } FIELD REVIEWED: Yes RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend ensuring that boundary excludes wet soils above and below unit; recommend at least partial suspension wit full suspension over notches.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Place unit boundary above the slope break of the class III, HC6 channel along west boundary.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Very high subsistence value. High habitat value. Recommend leaving snags where possible</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6344 QUAD(s): SITB5SW
 ACRES: 10 VOLUME: 252 MBF HARVEST VOLUME: 214 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



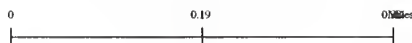
SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL



MAP SCALE 1:12000

LOGGING SYSTEMS:

C CABLE

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



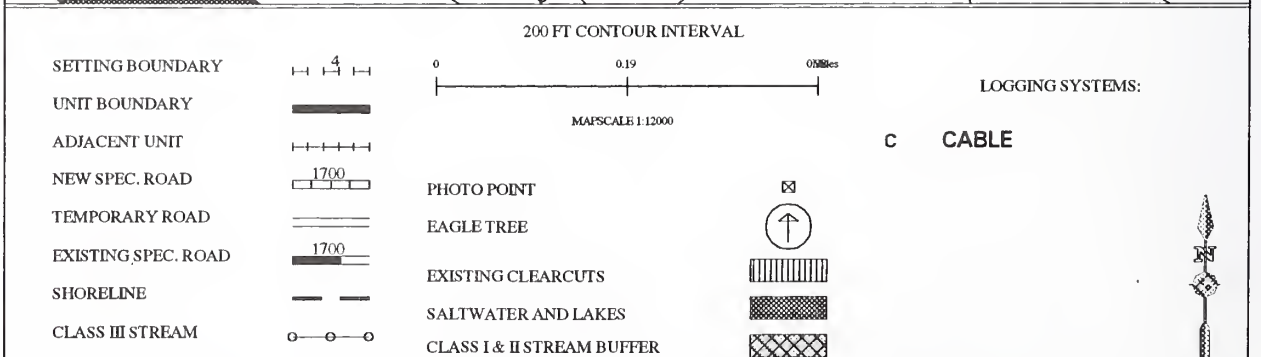
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6344	VCU: 302
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Consider seed tree cut for cedar regen. Light cedar decline in area. Portions of unit are rocky.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Soils concerns. No profiles run.</p>	
<p>{ LANDS } FIELD REVIEWED: Yes RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None needed REMARKS: Bad areas have been deleted; recommend at least partial suspension on remainder of unit.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Protect v-notches on east and south boundaries as per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Very high subsistence value. High habitat value. Recommend leaving snags where possible</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6345 QUAD(s): SITB5SW
 ACRES: 5 VOLUME: 126 MBF HARVEST VOLUME: 114 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 90

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



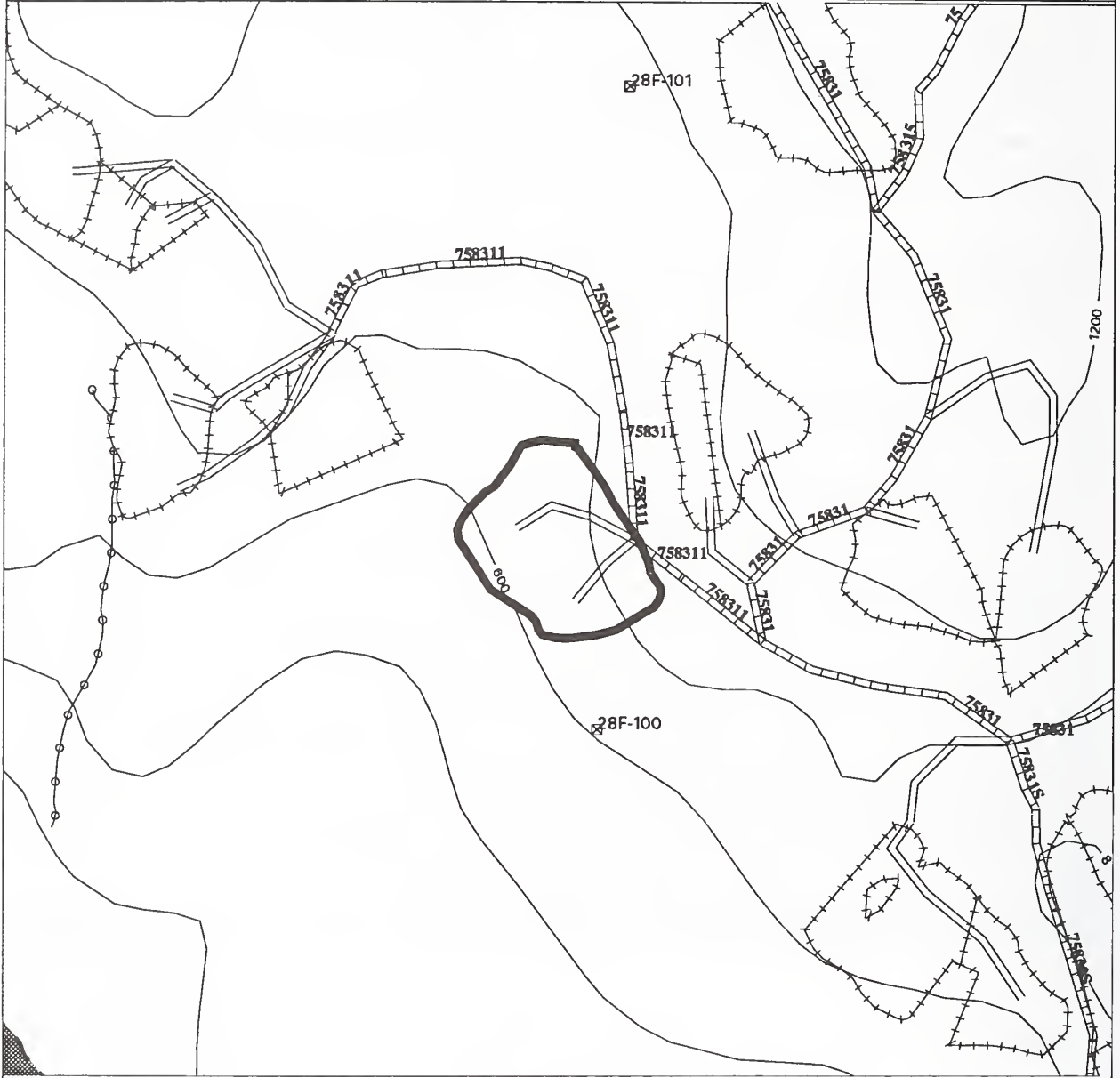
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6345	VCU: 302
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is western hemlock/blueberry and western hemlock-Alaska cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Consider seed tree cut for cedar regen. Partial suspension recommended.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No Concerns.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: R.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: The worst parts of this unit have been deleted; ensure backline is below cliffs; recommend full suspension across notches and at least partial suspension elsewhere.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6361 QUAD(s): SITB5SW
 ACRES: 20 VOLUME: 518 MBF HARVEST VOLUME: 493 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



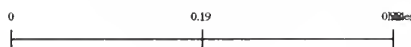
SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL



MAP SCALE 1:12000

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

C CABLE



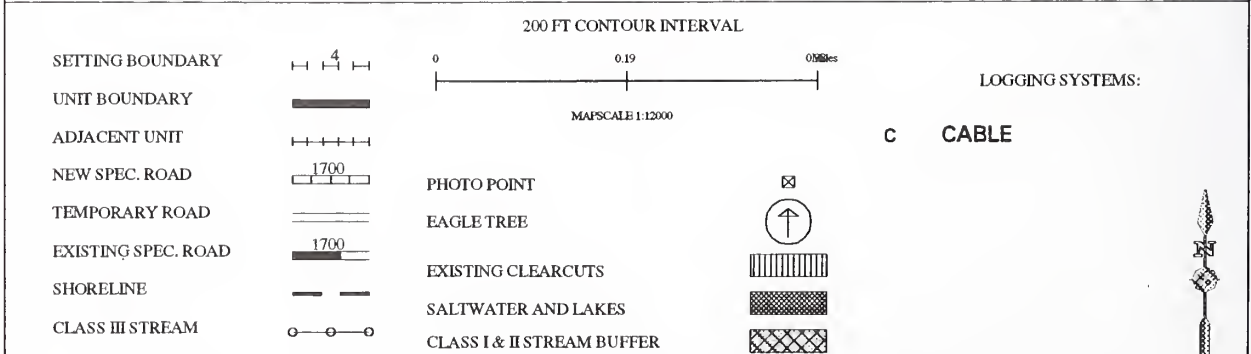
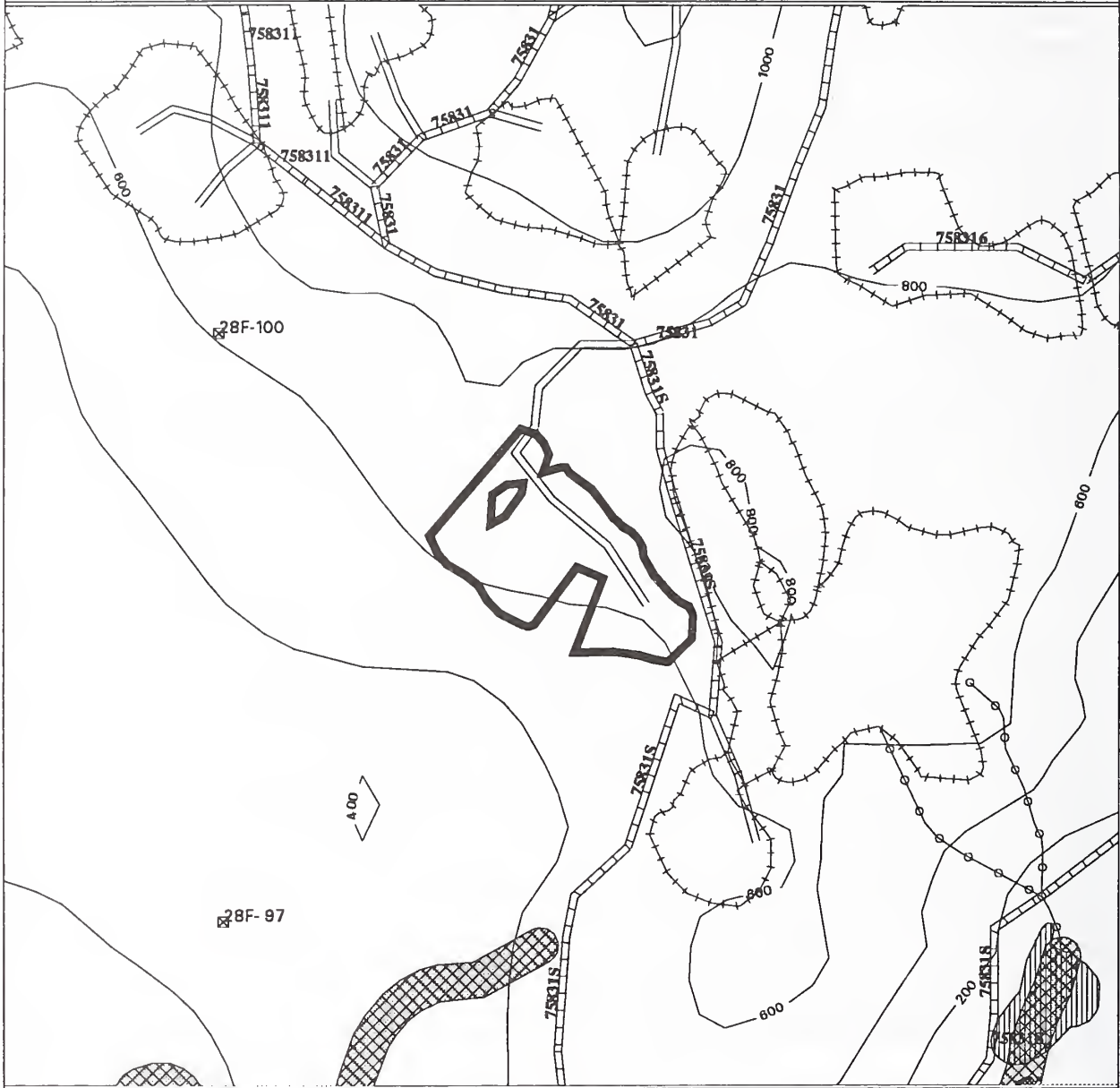
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6361	VCU: 302
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Profiles run from Landing 1. Partial suspension attained.</p>	
<p>{ LANDS } FIELD REVIEWED: Yes RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend at least partial suspension to protect wet and steep slopes.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: A v-notch that splits the north end of the unit should be marked in orange/white flagging, and protected as per BMP 13.3, category "B." The HC4 channel to the north and west of the unit is class III, and should be protected as per BMP 13.3, category "B." Class II habitat extends from the confluence of the two HC4 streams down to saltwater.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Very high subsistence value. High habitat value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: Landscape Architect REMARKS: Unit as planned does not meet VQO. Feather edges and place reserves to soften geometric form.</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6363 QUAD(S): SITB5SW
 ACRES: 22 VOLUME: 555 MBF HARVEST VOLUME: 333 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 60

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6363

VCU: 302

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Western hemlock-yellow cedar/blueberry,
 Silvicultural diagnosis for treatment is medium canopy retention, Consider
 overstory removal to retain cedar component.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Live Skyline. Profiles run from Landing 1. Partial suspension
 attained. 40 foot tail trees needed. Soils concerns. Visual concerns.

{ LANDS } FIELD REVIEWED: Yes RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: no concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: The worst areas have been deleted; recommend at least partial
 suspension to protect steep slopes; directionally fall trees away from
 notches; recommend full suspension on slopes steeper than 70 percent.

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: A v-notch that splits the east-central portion of the unit should be
 protected as per BMP 13.3, category "B."

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Very high subsistence value. High habitat value. Recommend leaving
 snags where possible

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

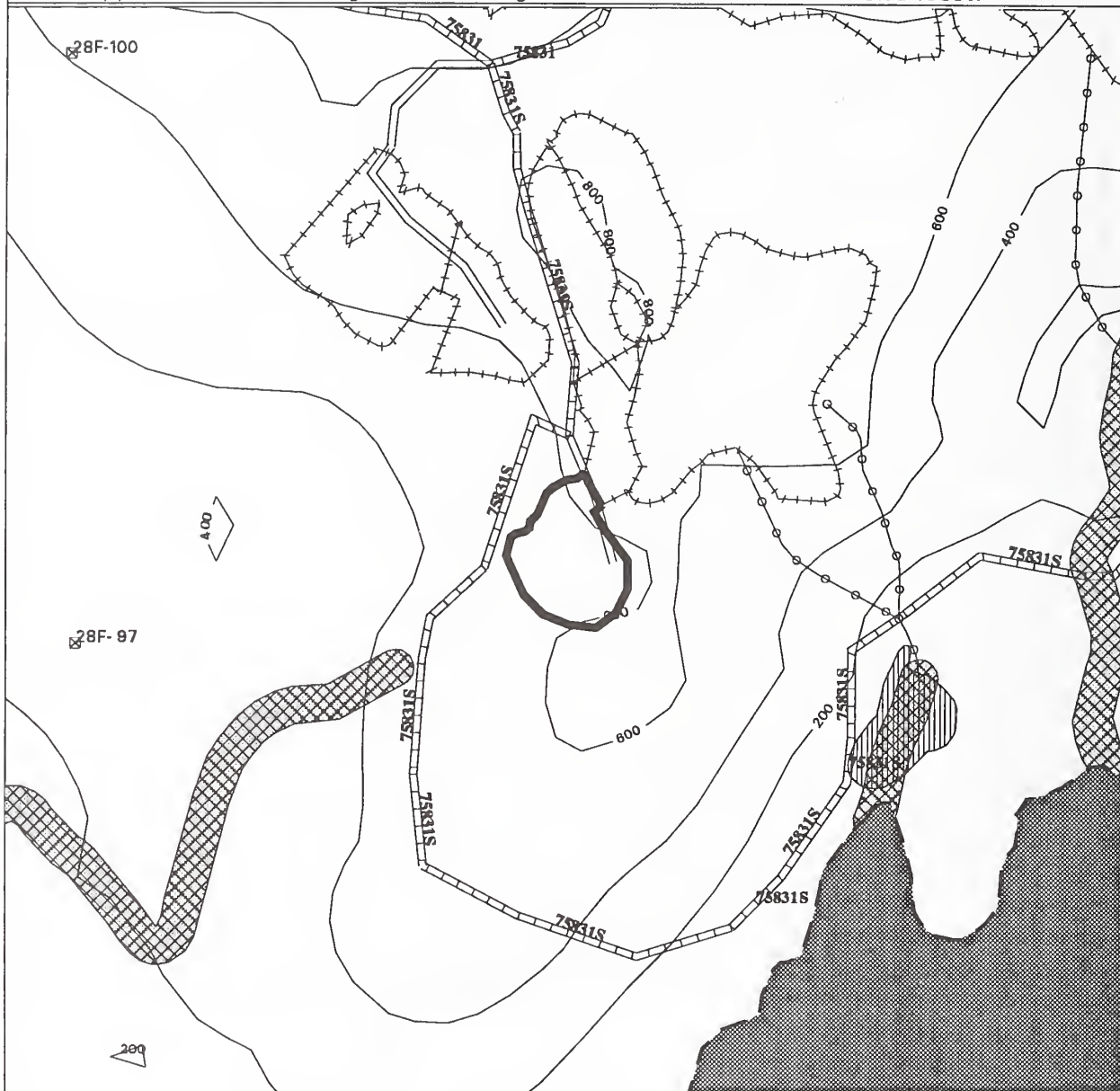
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6364 QUAD(s): SITB5SW/SITA5NW
 ACRES: 9 VOLUME: 227 MBF HARVEST VOLUME: 204 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 90

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM

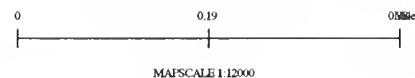
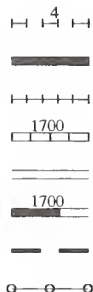
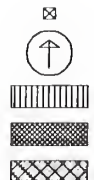


PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

C CABLE



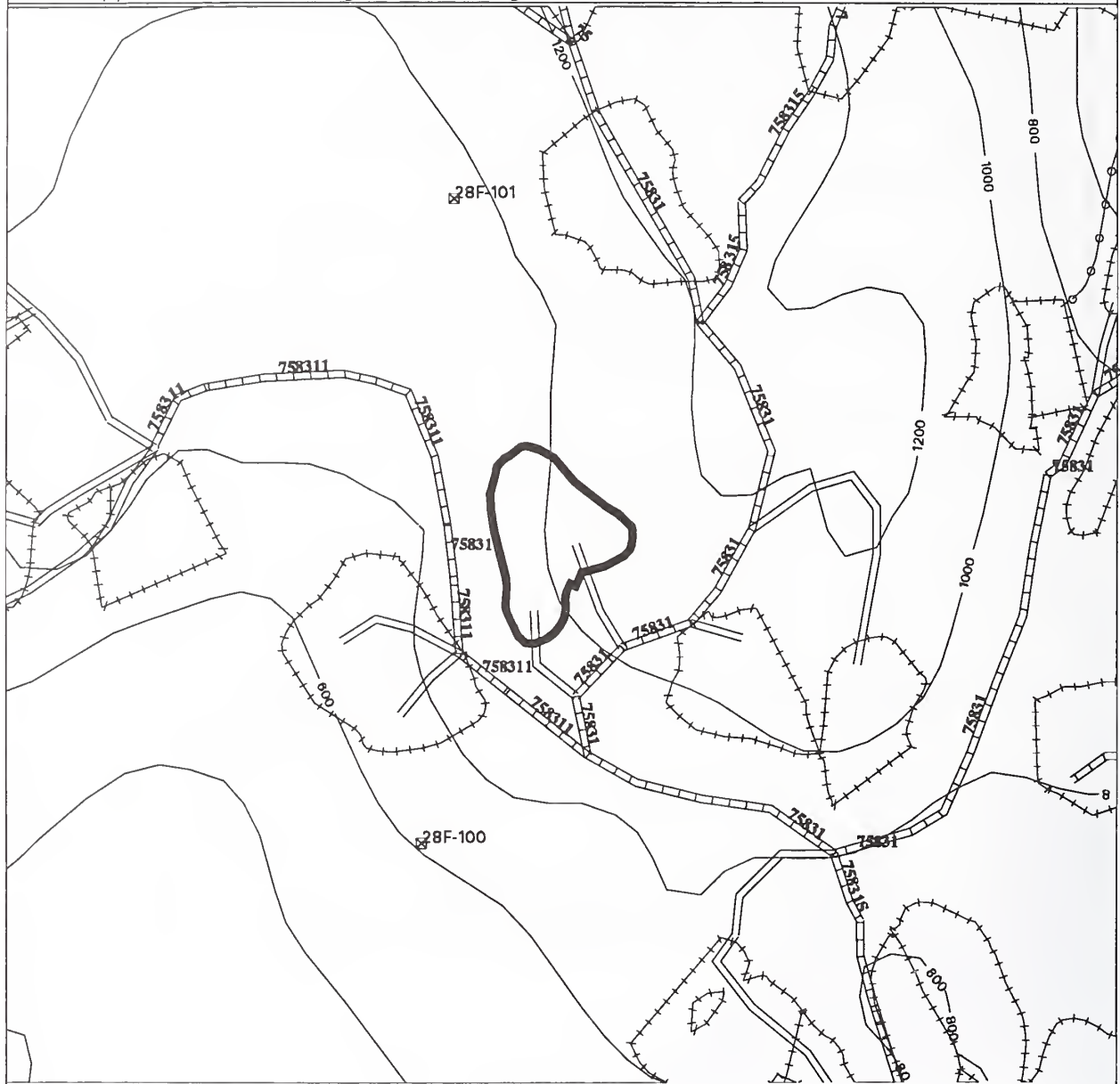
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6364	VCU: 300/302
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves. Consider planting cedar.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Profiles run from Landing 1. Partial suspension attained. 70 foot tail trees needed.	
{ LANDS } FIELD REVIEWED: Yes RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Directionally fall trees away from notches and provide full suspension over notches; Recommend at least partial suspension elsewhere.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Very high subsistence value. High habitat value. Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

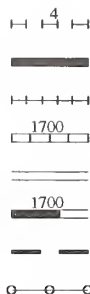
NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6371 QUAD(s): SITB5SW
 ACRES: 13 VOLUME: 388 MBF HARVEST VOLUME: 368 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM



200 FT CONTOUR INTERVAL
 0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

C CABLE



NORTHWEST BARANOF HARVEST UNIT CARD

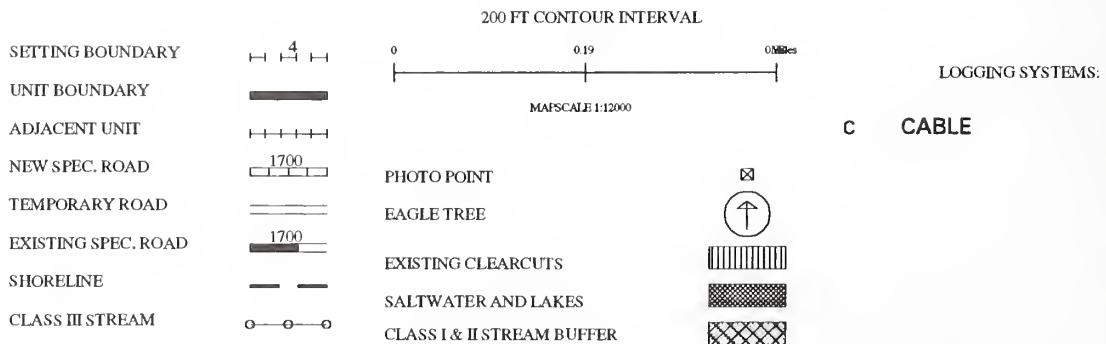
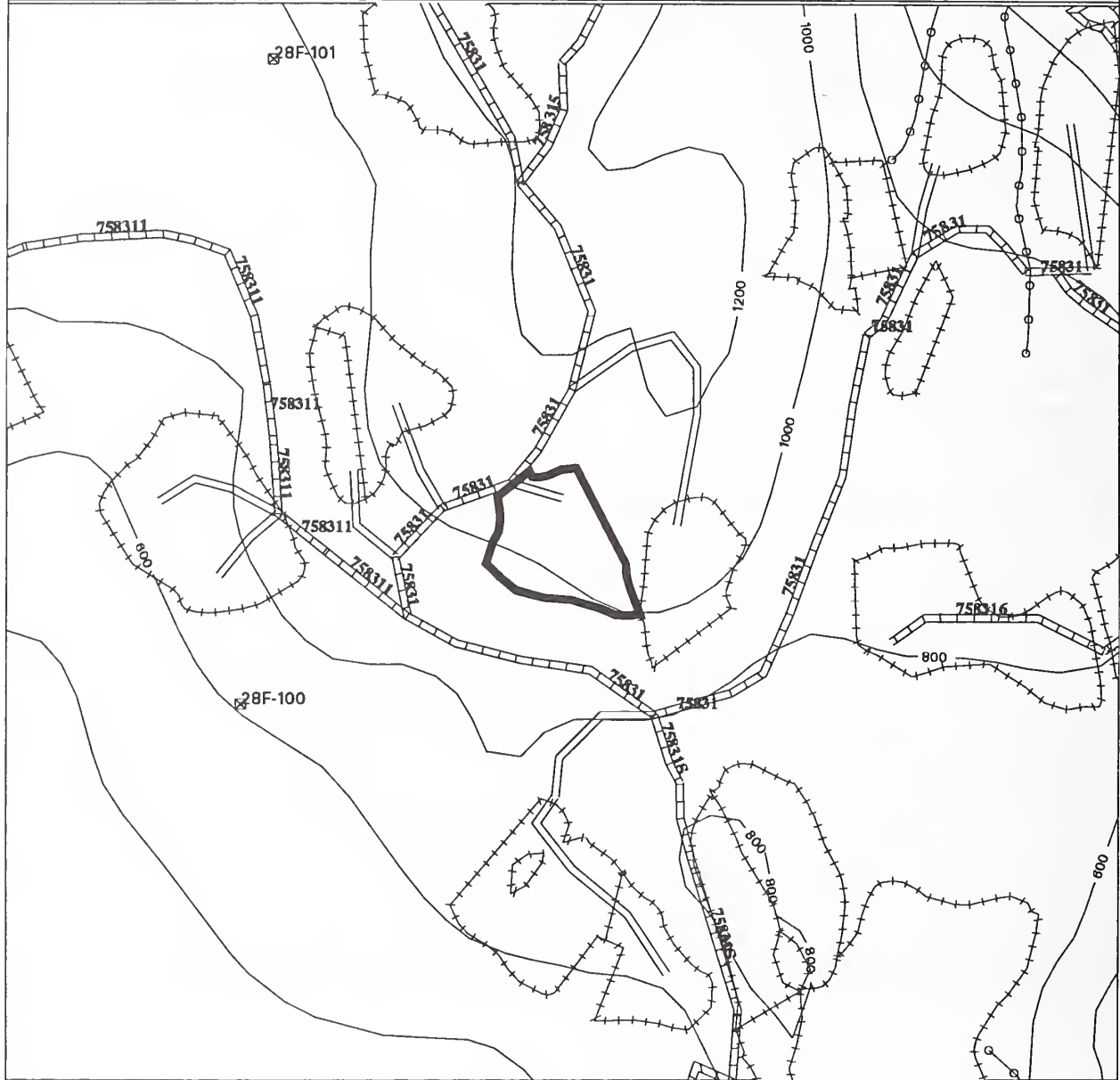
UNIT: 6371	VCU: 302
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Sitka spruce-mountain hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves. Soils are wet in places.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Profiles run from Landing 1. Full suspension required over V-notches. Reduce yarding distance by 100 feet to attain full suspension.	
{ LANDS } FIELD REVIEWED: Yes RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Directionally fall trees away from notches; recommend full suspension to protect notches.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Mark v-notch that splits center of unit in orange/white, and protect as per BMP 13.3, category "B."	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit as planned does not meet VQO. Feather east boundary to replicate natural openings.	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD

PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 6372 QUAD(s): SITB5SW
 ACRES: 11 VOLUME: 278 MBF HARVEST VOLUME: 194 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 70

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



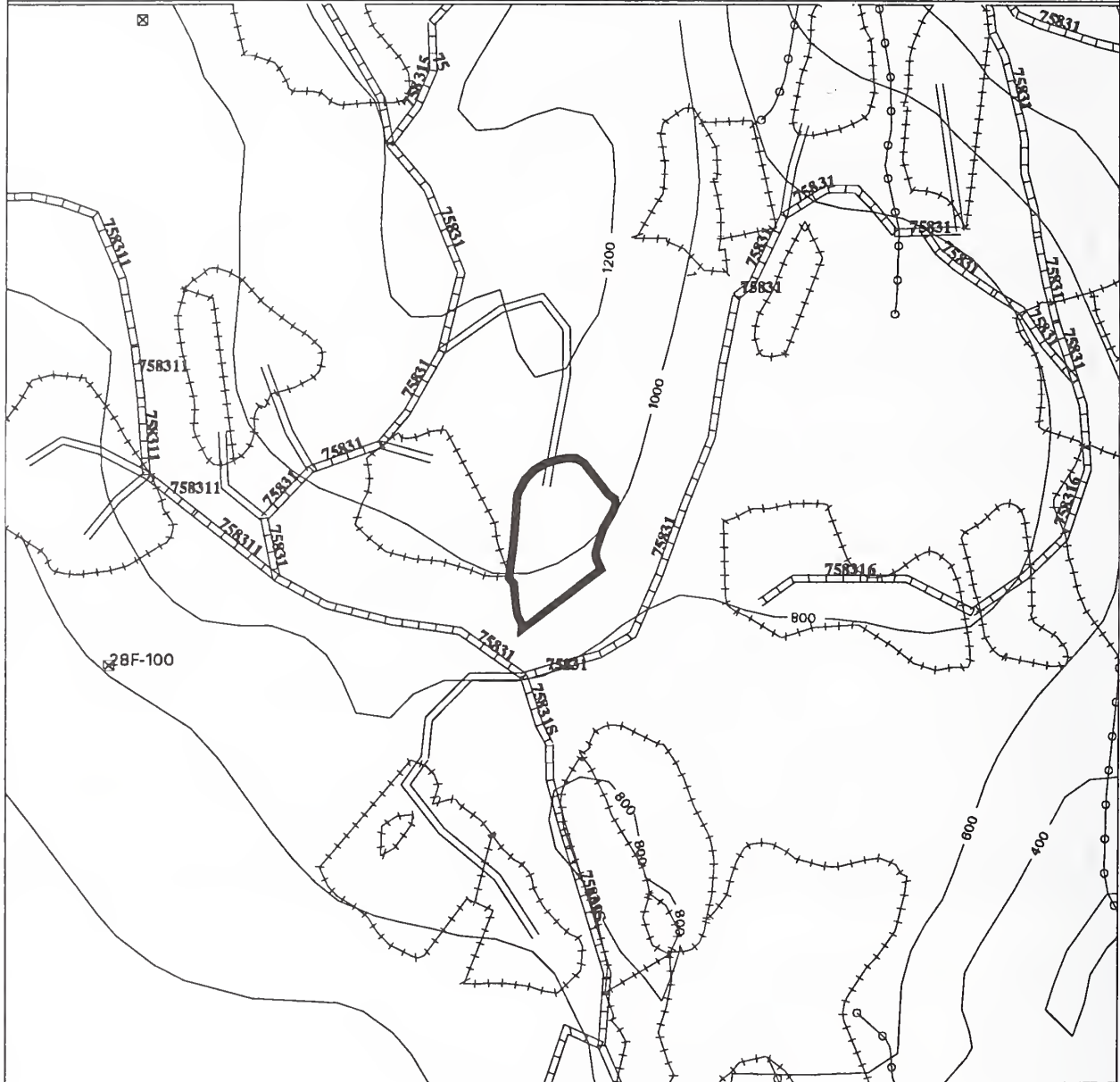
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6372	VCU: 302
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry/skunk cabbage, Silvicultural diagnosis for treatment is medium canopy retention, Consider overstory removal for releasing understory and retaining portion of overstory.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Visual concerns.	
{ LANDS } FIELD REVIEWED: Yes RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Bad areas have been deleted; the rest looks OK.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Protect stream course on west boundary as per BMP 13.3, category "B."	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 6373 QUAD(s): SITB5SW
 ACRES: 9 VOLUME: 227 MBF HARVEST VOLUME: 216 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



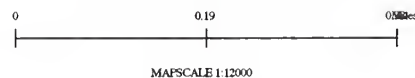
EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



LOGGING SYSTEMS:

C CABLE

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6373

VCU: 300/302

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Sitka spruce/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Live Skyline. Partial suspension attained. Profiles run from Landing 1. Soils concerns.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: no concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: The worst areas have been deleted; recommend full suspension for the rest of the unit to protect steep or rocky or unstable soils.

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Protect stream courses on east and south boundaries as per BMP 13.3, category "B."

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: High subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

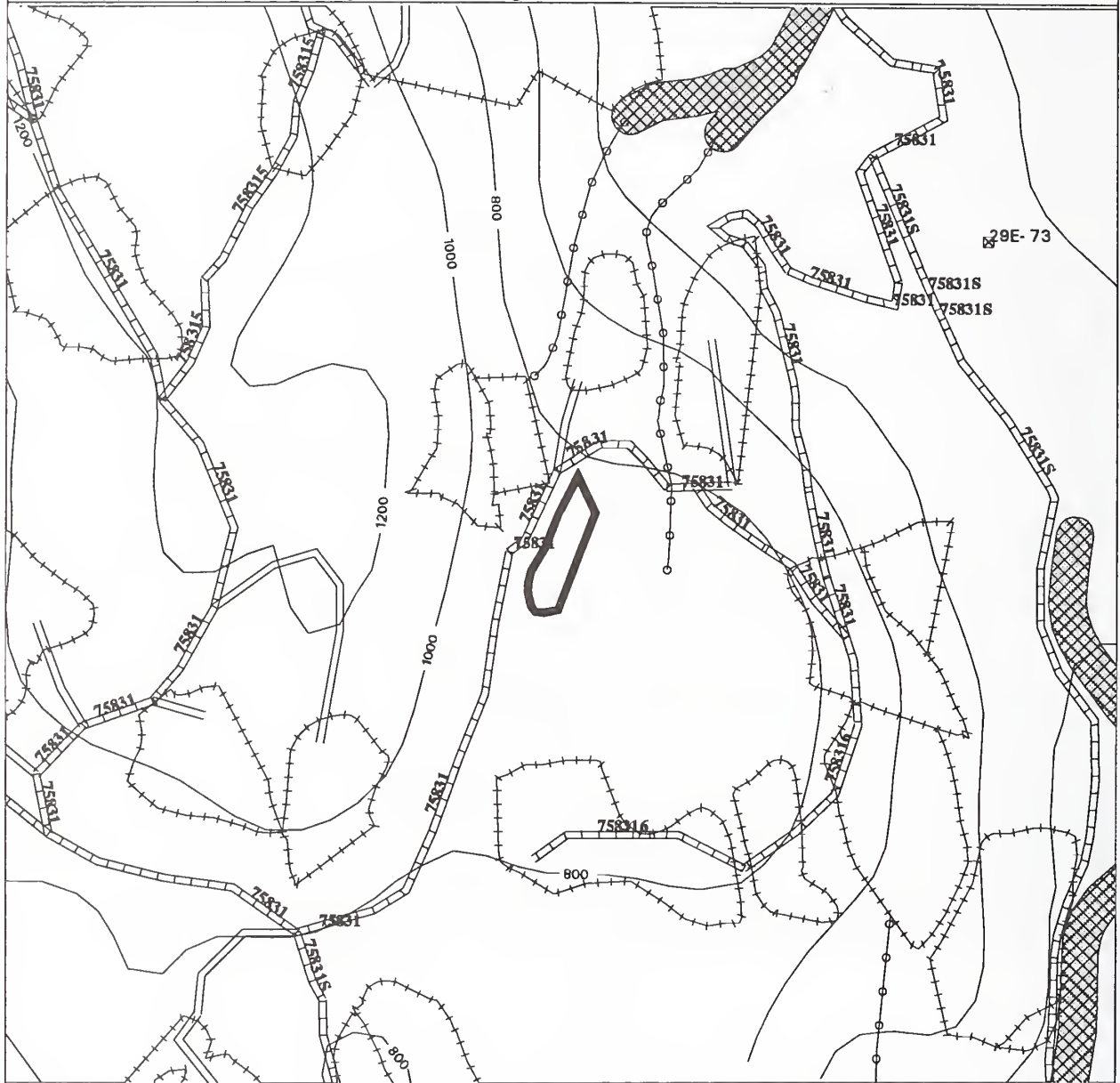
NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 6391 QUAD(s): SITB5SW

ACRES: 3 VOLUME: 76 MBF HARVEST VOLUME: 72 MBF

HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



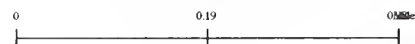
EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



MAP SCALE 1:12000

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

C CABLE



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 6391	VCU: 300/302
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is mixed conifer/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No Concerns.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: The worst areas have been deleted but unit still contains some steep slopes; recommend at least partial suspension to protect soils.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 7001 QUAD(s): SITB5SW

ACRES: 13 VOLUME: 328 MBF HARVEST VOLUME: 312 MBF

HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES

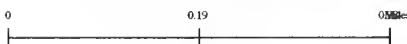


CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

c CABLE



MAP SCALE 1:12000



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7001	VCU: 300
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry/shield-fern, Silvicultural diagnosis for treatment is low canopy retention, Protect soils where possible, Clearcut with reserves.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No profiles run. Soils concerns.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Some wet areas and small cliffs are present; recommend at least partial suspension with full suspension over cliffs and very shallow soils.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Very high subsistence value. High habitat value. Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit as planned does not meet VQO.	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD

PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 7002 QUAD(s): SITB5SW
 ACRES: 18 VOLUME: 454 MBF HARVEST VOLUME: 432 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM

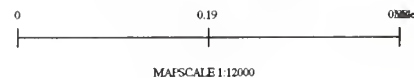


PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

c CABLE



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7002

VCU: 300

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Western hemlock-yellow cedar/menziesia. ,
 Silvicultural diagnosis for treatment is low canopy retention, Protect soils
 where possible, Clearcut with reserves. Consider planting cedar.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Live Skyline. Full suspension required. Profile run and feasible. 40
 foot tail trees needed. Soils concerns.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend full suspension or preferably helicopter; otherwise delete
 areas steeper than 75%

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: A class III, HC6 channel splits the unit from north to south. Mark
 with orange/white flagging, and protect as per BMP 13.3, category "B." A
 tributary to the HC6 channel runs along the west side of the proposed unit.
 Place the boundary at or above the slope break. Another stream runs along the
 NE boundary. Protect as per BMP 13.3, category "B."

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Very high subsistence value. High habitat value. Recommend leaving
 snags where possible and leaving reserve trees near edge of unit

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Unit as planned does not meet VQO. Feather western boundary.

{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area









NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 7003 QUAD(s): SITB5SW
 ACRES: 7 VOLUME: 177 MBF HARVEST VOLUME: 168 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95






Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY 
 UNIT BOUNDARY 
 ADJACENT UNIT 
 NEW SPEC. ROAD 
 TEMPORARY ROAD 
 EXISTING SPEC. ROAD 
 SHORELINE 
 CLASS III STREAM 

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT 
 EAGLE TREE 
 EXISTING CLEARCUTS 
 SALTWATER AND LAKES 
 CLASS I & II STREAM BUFFER 

LOGGING SYSTEMS:

C CABLE



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7003

VCU: 300

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Sitka spruce/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves. Consider planting cedar, particularly in upper unit.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Live Skyline. No Concerns. No profiles run.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend at least partial suspension with full suspension over notches and benches

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Protect v-notch along east boundary as per BMP 13.3, category "B."

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: High subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

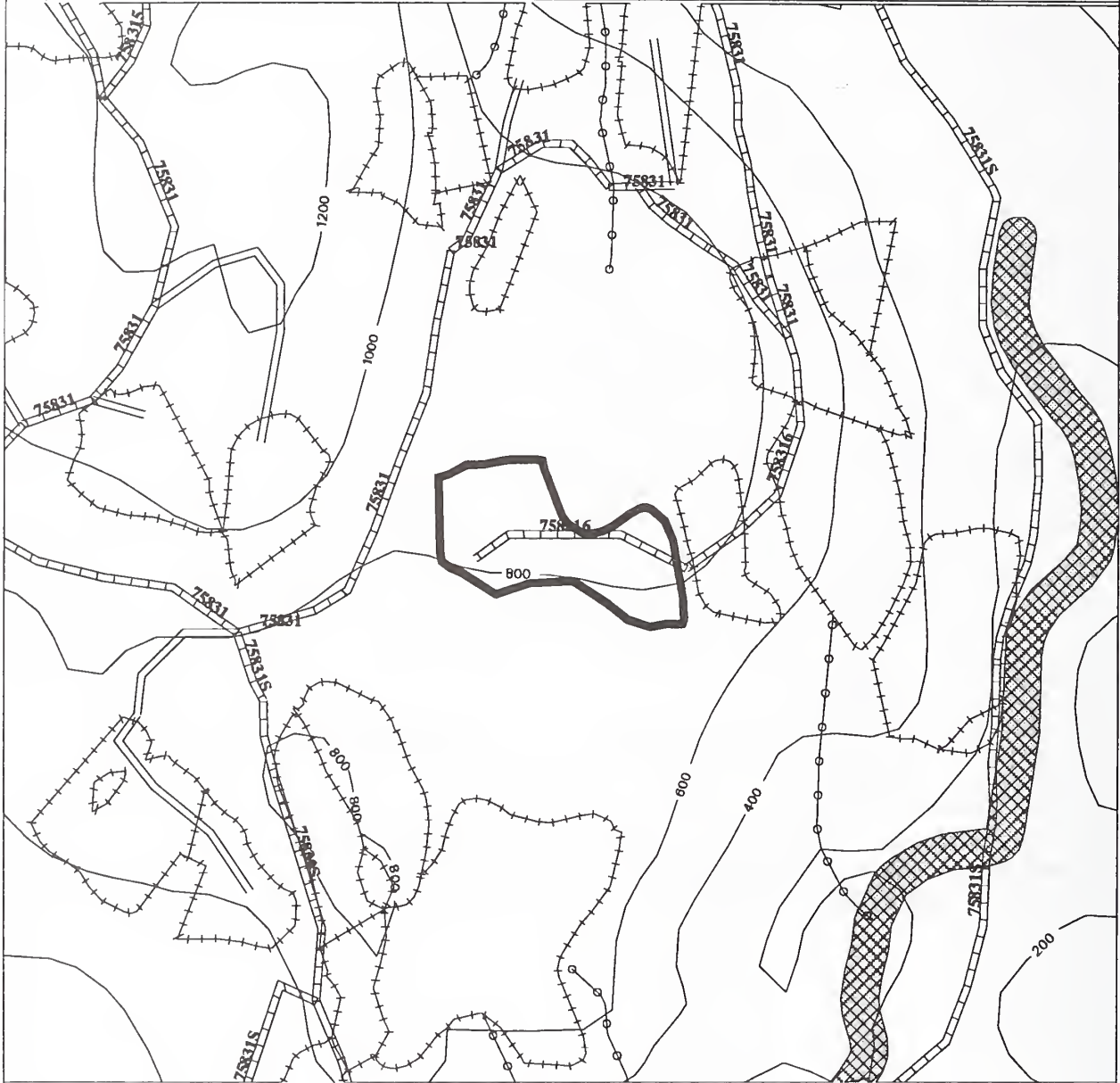
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 7004 QUAD(s): SITB5SW
 ACRES: 19 VOLUME: 479 MBF HARVEST VOLUME: 455 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



0 0.19 0.38 Miles

MAP SCALE 1:12000

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:









c CABLE

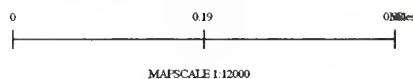


NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7004	VCU: 300
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Protect soils where possible, Clearcut with reserves. Consider planting cedar.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No profiles run.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend at least partial suspension with full suspension over wet areas steeper than 45%</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Protect v-notch on the east boundary as per BMP 13.3, category "B." A v-notch bisects the narrow center of the unit, and another v-notch occurs at the NW corner of the unit. Mark with orange/white flagging, and protect as per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit as planned does not meet VQO. Feather and place reserves along north boundary to soften edge.</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

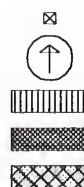
VCU: 300 UNIT NUMBER: 7005 QUAD(s): SITB5SW
ACRES: 19 VOLUME: 479 MBF HARVEST VOLUME: 455 MBF
HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

SETTING BOUNDARY	
UNIT BOUNDARY	
ADJACENT UNIT	
NEW SPEC. ROAD	
TEMPORARY ROAD	
EXISTING SPEC. ROAD	
SHORELINE	
CLASS III STREAM	



H HELICOPTER

PHOTO POINT
EAGLE TREE
EXISTING CLEARCUTS
SALTWATER AND LAKES
CLASS I & II STREAM BUFFER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7005

VCU: 300

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Western hemlock-yellow cedar/menziesia. ,
 Silvicultural diagnosis for treatment is low canopy retention, Clearcut with
 reserves. Consider planting cedar.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Helicopter yarding required. No Concerns.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Bad areas have been deleted; the remaining portion of this units
 looks OK.

{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist
 REMARKS: Class II fish stream marked in blue/white flagging on east boundary.
 Protect as per BMP 12.6a and 12.6. Mark the stream that bisects the center of
 the unit in orange/white flagging, and protect as per BMP 13.3, category "B."
 Place SW boundary at or above the slope break into the class III, HC6 channel.

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Very high subsistence value. High habitat value. Recommend leaving
 snags where possible and leaving reserve trees near edge of unit

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area









NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 7006 QUAD(s): SITB5SW
 ACRES: 5 VOLUME: 126 MBF HARVEST VOLUME: 120 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95






Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY 
 UNIT BOUNDARY 
 ADJACENT UNIT 
 NEW SPEC. ROAD 
 TEMPORARY ROAD 
 EXISTING SPEC. ROAD 
 SHORELINE 
 CLASS III STREAM 

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT 
 EAGLE TREE 
 EXISTING CLEARCUTS 
 SALTWATER AND LAKES 
 CLASS I & II STREAM BUFFER 

LOGGING SYSTEMS:

c CABLE



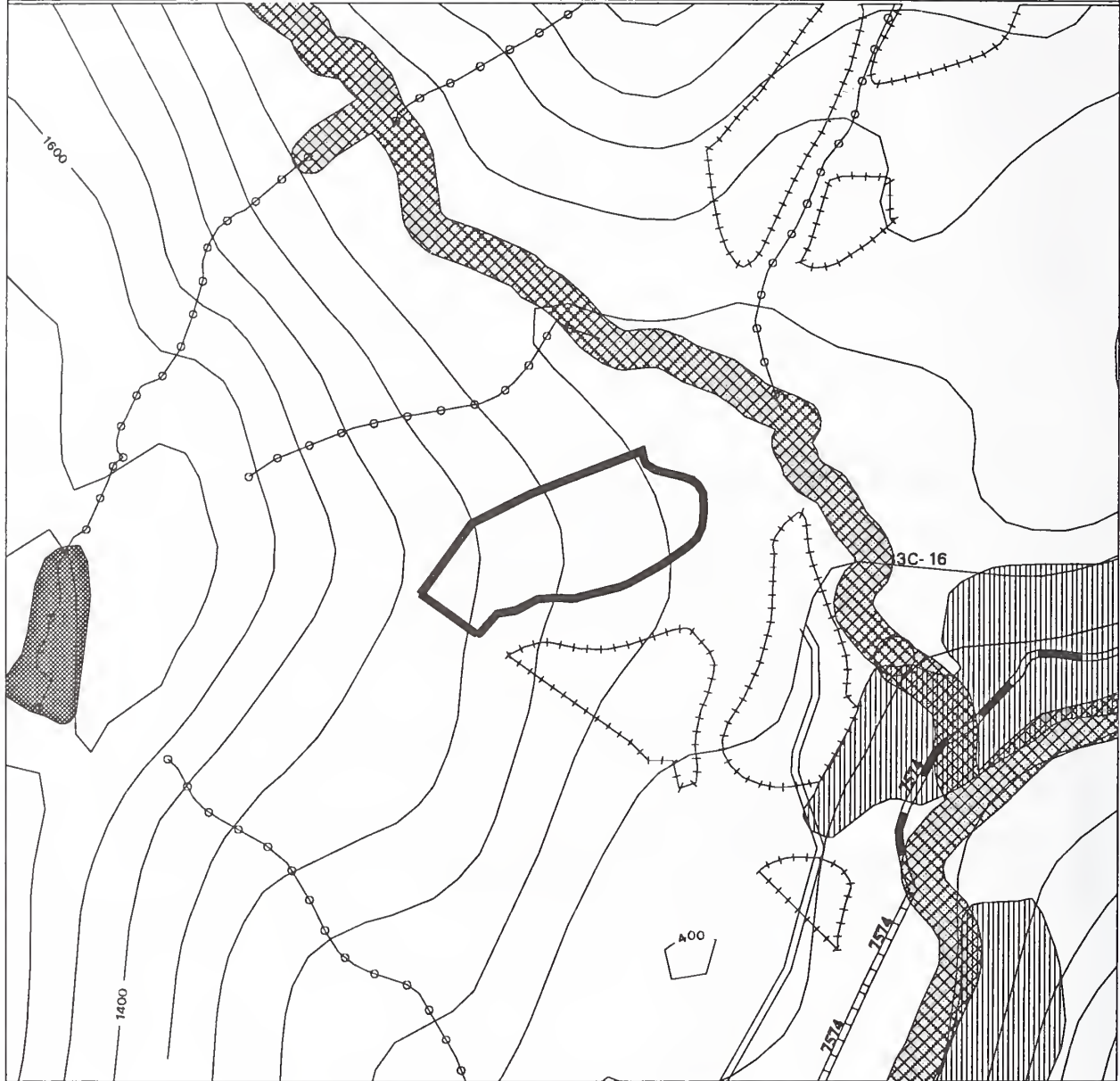
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7006	VCU: 300
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/menziesia. , Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No concerns.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Oversteepened, unstable, dissected areas have been deleted; the remaining unit looks OK.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Very high subsistence value. High habitat value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	









NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 7161 QUAD(s): SITB5SE
 ACRES: 22 VOLUME: 555 MBF HARVEST VOLUME: 389 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 70






Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY 
 UNIT BOUNDARY 
 ADJACENT UNIT 
 NEW SPEC. ROAD 
 TEMPORARY ROAD 
 EXISTING SPEC. ROAD 
 SHORELINE 
 CLASS III STREAM 

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT 
 EAGLE TREE 
 EXISTING CLEARCUTS 
 SALTWATER AND LAKES 
 CLASS I & II STREAM BUFFER 

LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7161

VCU: 300

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is mixed conifer/blueberry, Silvicultural diagnosis for treatment is medium canopy retention, Consider overstory removal to retain portion of overstory and understory, as well as protect shallow, wet soils.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Helicopter yarding required. Slope restriction 75%. Buffer V-notches. Soils concerns.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None needed
 REMARKS: Unit contains some steep and wet areas; soils will be protected by full suspension provided by helicopter logging.

{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist
 REMARKS: Place NW boundary well above the slope break of the HC6 channel to avoid extreme soil mass movement hazard.

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: High subsistence value. Recommend leaving snags where possible

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

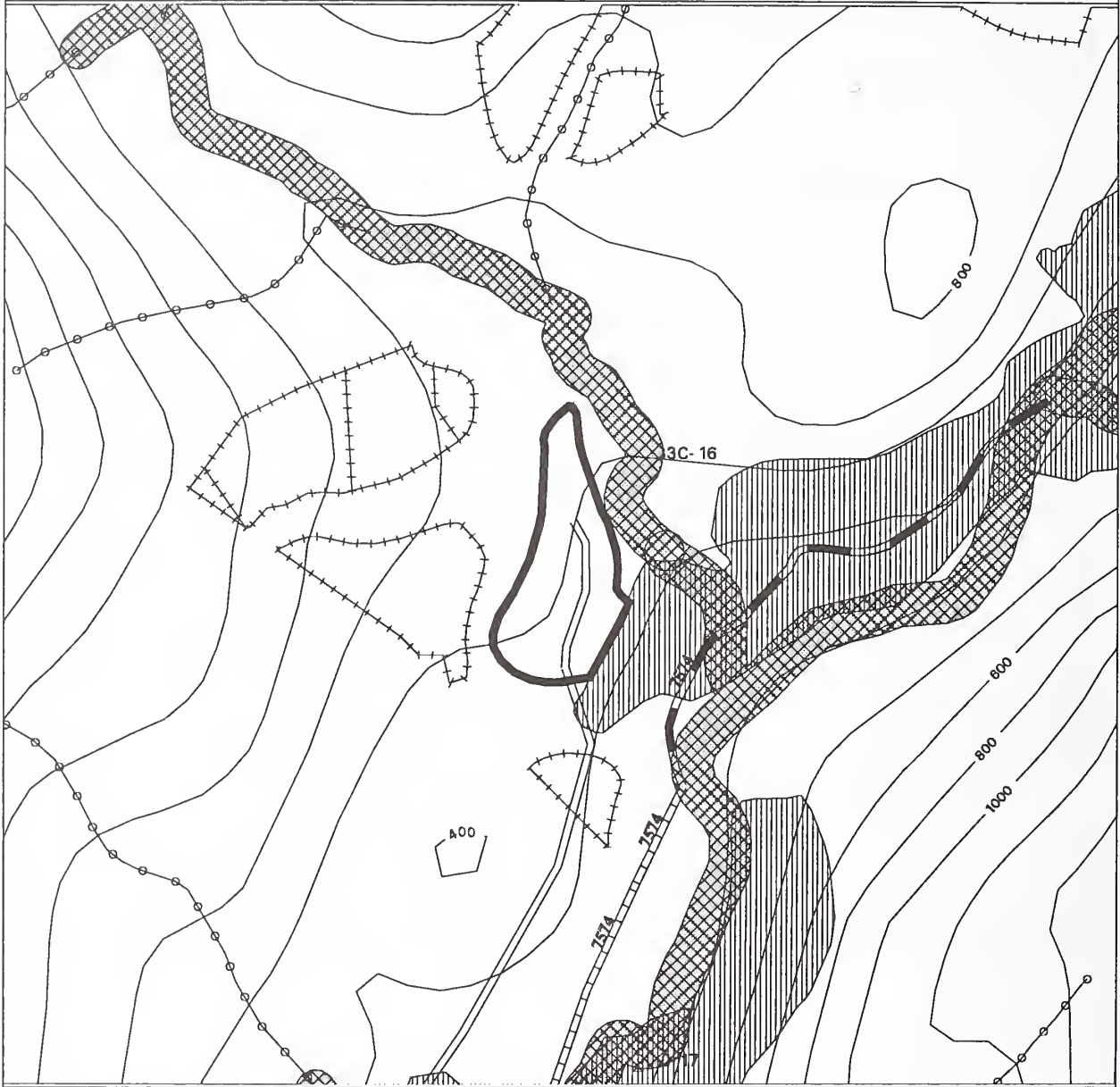
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 7162 QUAD(s): SITB5SE
 ACRES: 16 VOLUME: 404 MBF HARVEST VOLUME: 343 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

C CABLE



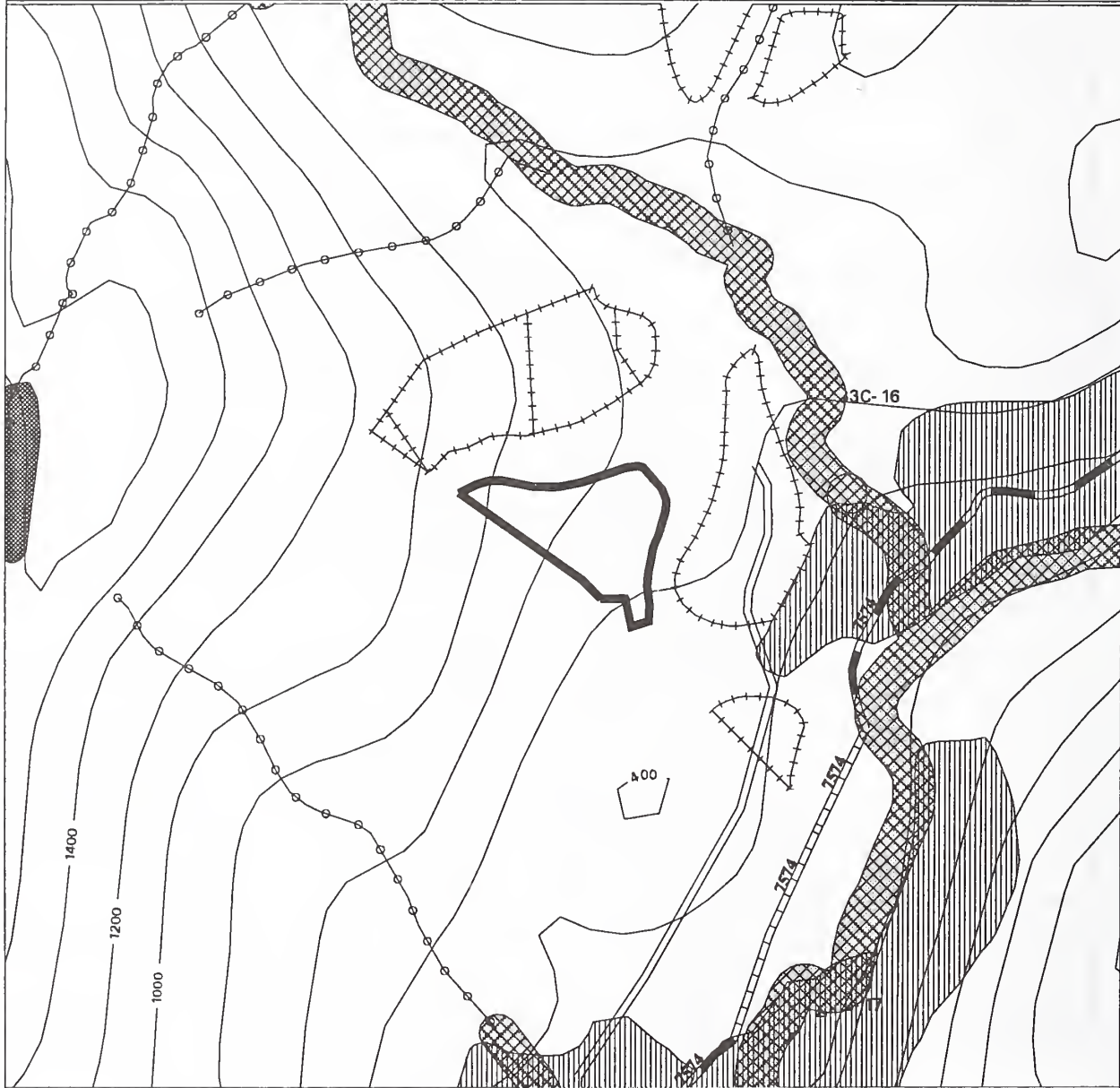
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7162	VCU: 300
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is mixed conifer/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves. Consider planting cedar.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Field data missing. Does not appear that has any problems.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns</p>	
<p>{ SOILS } FIELD REVIEWED: No RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit may contain a blindlead; recommend at least partial suspension to minimize disturbance; recommend deleting area with potential blindlead if unable to get at least partial suspension; request that a soil scientist be notified if potential soils problems are identified during layout.</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Mark v-notch in center of unit in orange/white flagging, and protect as per BMP 13.3, category "B." Maintain minimum of 100' stream buffer on Class II, HC3 channel on back side of unit (BMP 12.6a and 12.6).</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. High habitat value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 7163 QUAD(s): SITB5SE
 ACRES: 13 VOLUME: 333 MBF HARVEST VOLUME: 283 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM

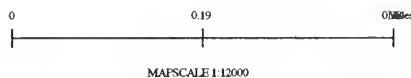


PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

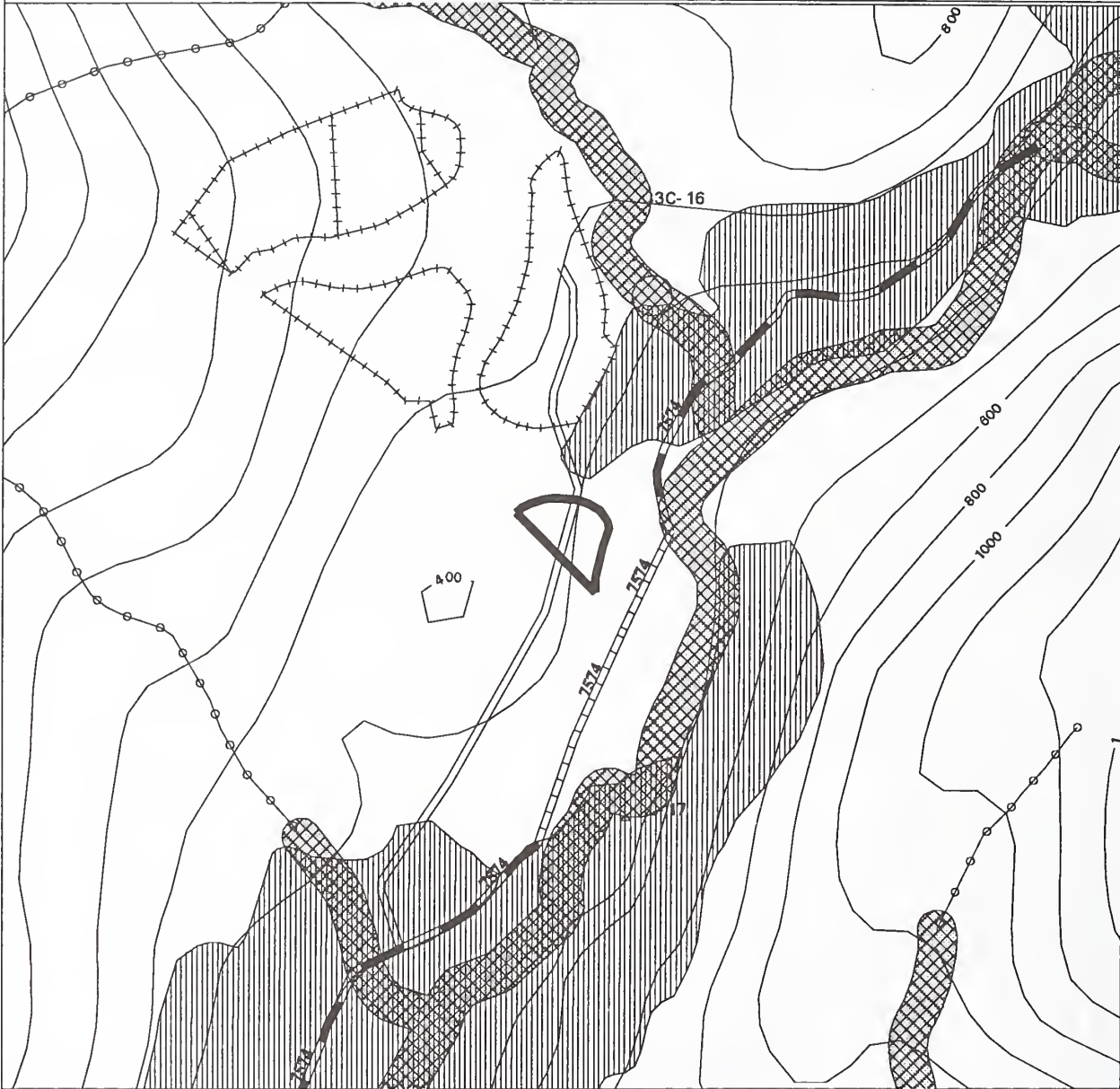
UNIT: 7163	VCU: 300
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is mixed conifer/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Protect soils where possible, Clearcut with reserves. Consider planting cedar.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. Soils concerns.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Bad areas are already deleted; recommend directional falling away from v-notches; full suspension will be provided by helicopter logging.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist to verify the extent of class II fish habitat. REMARKS: A v-notch bisects the northern half of the unit. Mark in orange/white flagging, and protect as per BMP 13.3, category "B." Place north boundary at or above the slope break of the class III, HC6 channel, and protect as per BMP 13.3, category "B." The SE corner of the unit has 0.4 acres of mapped riparian habitat. This area has a small stream that is potential class II fish habitat. The unit boundary should be placed to avoid the riparian habitat, and protect the small channel as per BMP 12.6a and 12.6. The lower unit boundary runs along an unmapped stream. Mark the extent of class II fish habitat in blue/white flagging, and protect as per BMP 12.6a and 12.6 by providing a minimum 100' stream buffer.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. High habitat value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD

PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 7164 QUAD(S): SITB5SE
 ACRES: 4 VOLUME: 101 MBF HARVEST VOLUME: 96 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

C CABLE



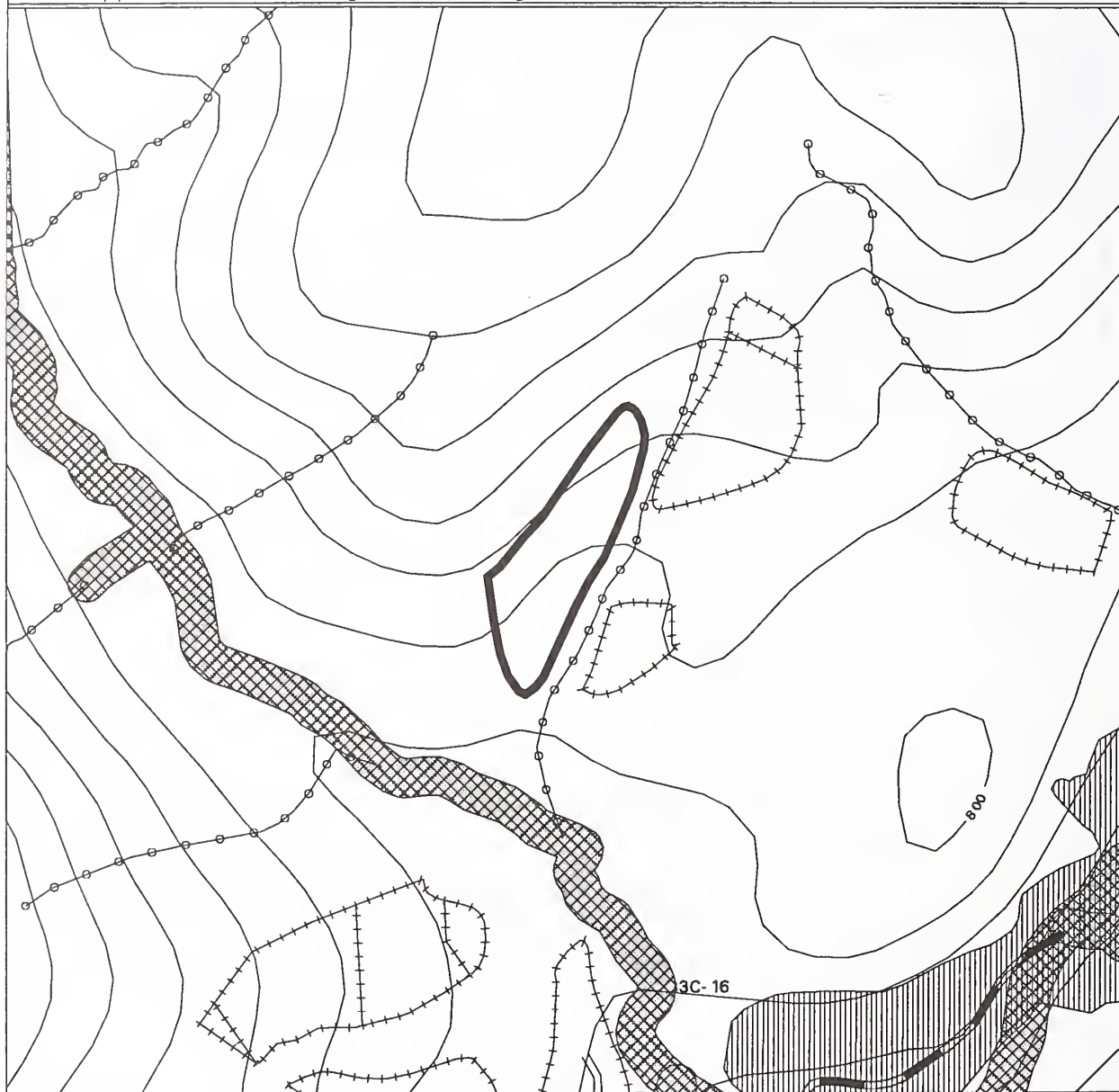
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7164	VCU: 300
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is mixed conifer/blueberry/skunk cabbage, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves. Consider planting cedar.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. No profiles run due to small unit size. Possible shovel unit.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns</p>	
<p>{ SOILS } FIELD REVIEWED: No RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Some blowdown is present; recommend at least partial suspension to minimize surface disturbance; if serious soils problems are identified prior to or during layout, recommend deleting this small unit.</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 7221 QUAD(s): SITB5SE
 ACRES: 15 VOLUME: 379 MBF HARVEST VOLUME: 227 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 60

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

H HELICOPTER



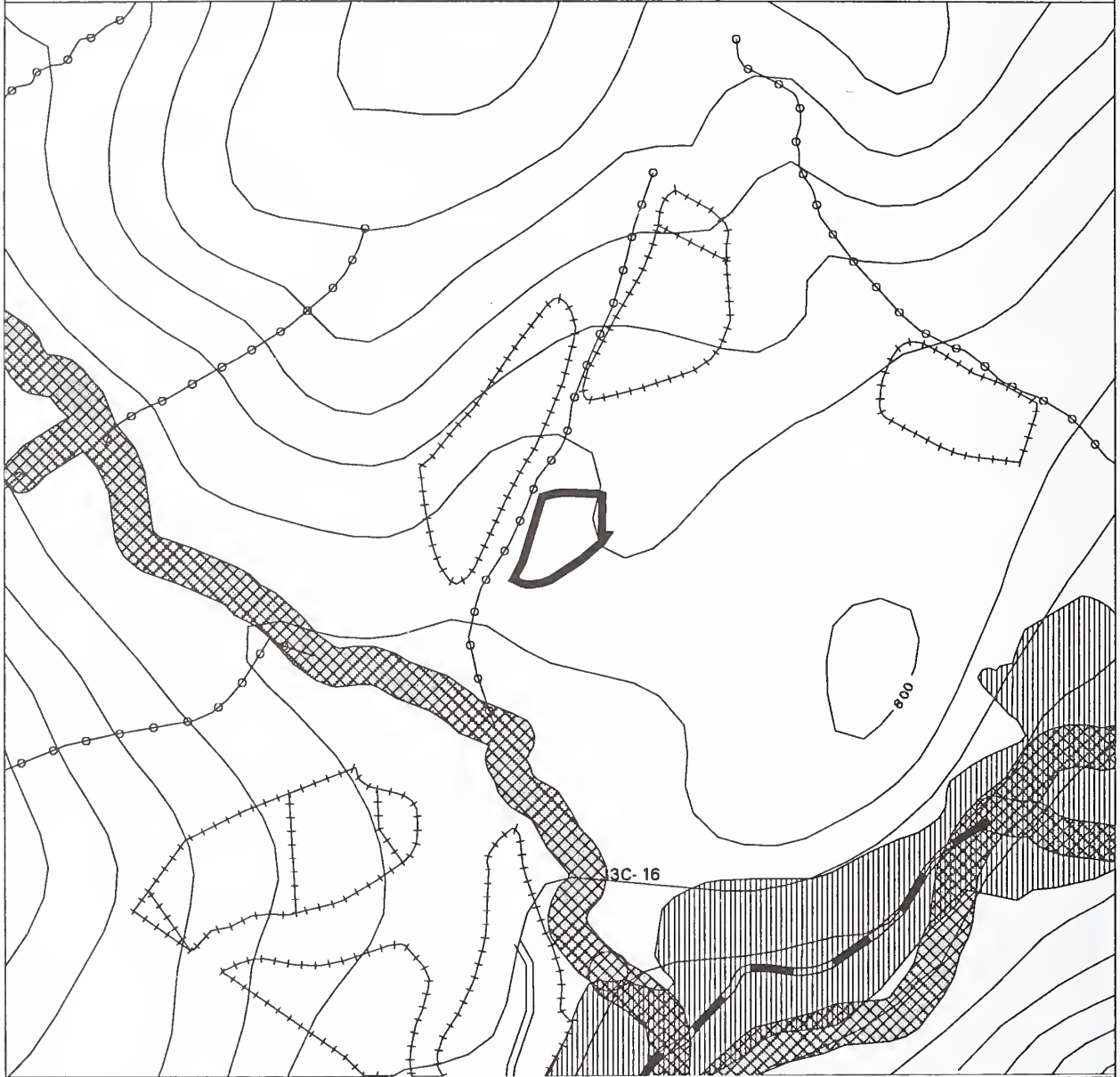
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7221	VCU: 300
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry and mixed conifer/blueberry, Silvicultural diagnosis for treatment is medium canopy retention, Protect soils where possible, Consider overstory removal to retain portion of overstory and protect soils. Unit very dissected. Buffer all v-notches, with large buffer on bottom.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. No other concerns.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Some wet areas are present; soils will be protected by full suspension provided by helicopter logging.</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist, Fisheries Biologist or Hydrologist REMARKS: Class II fish habitat ends at the south end of the unit, however, the high soil mass movement hazard, and indicators of recent surface erosion warrant an extended class III buffer as per BMP 13.16. The lower unit boundary should be placed well back from the stream and active slide zones, and leave a stable, vegetated buffer. At least four v-notches should be marked in orange/white flagging and protected as per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High habitat value. Recommend leaving snags where possible</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 7222 QUAD(s): SITB5SE
 ACRES: 4 VOLUME: 101 MBF HARVEST VOLUME: 86 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



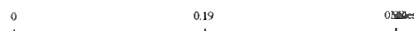
EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



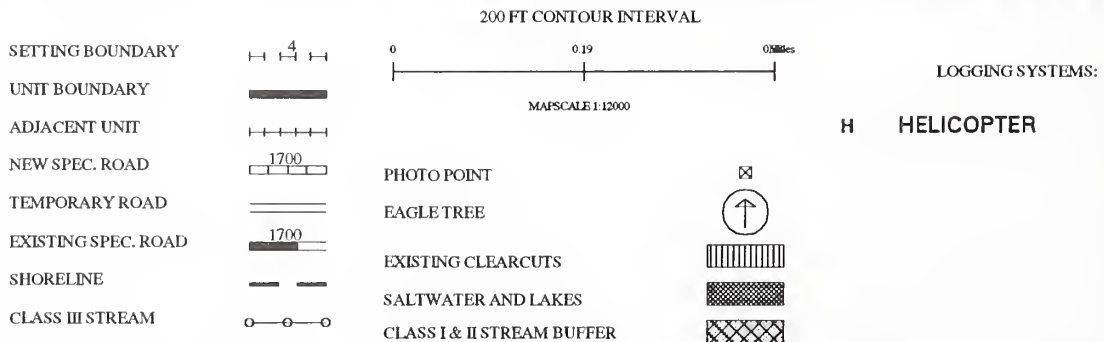
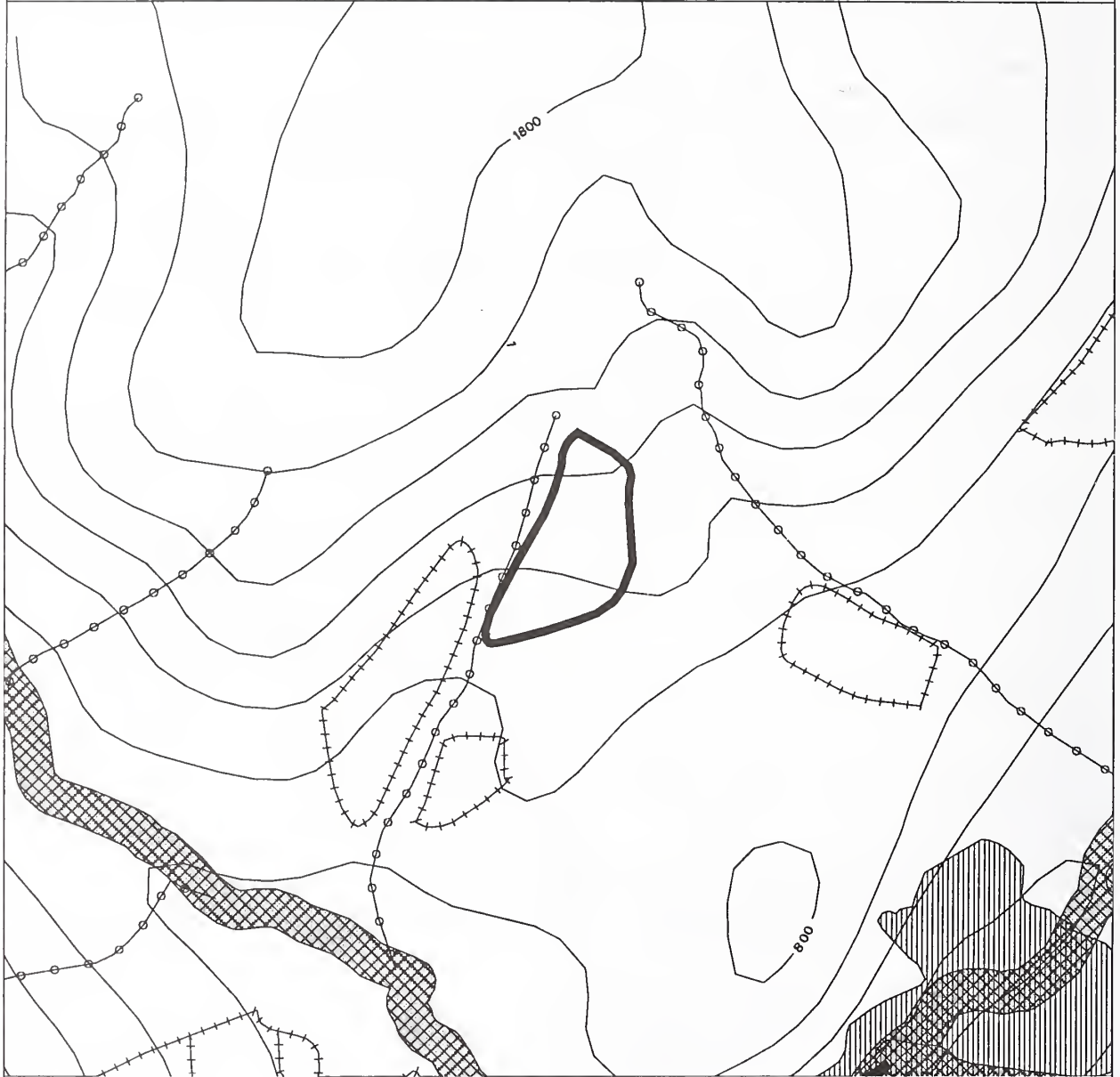
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7222	VCU: 300
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry and Sitka spruce/blueberry, Silvicultural diagnosis for treatment is medium canopy retention, Protect soils where possible, Protect regeneration where possible, Consider overstory removal to release understory and retain portion of overstory.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. No other concerns.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No soils concerns.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Maintain boundary above the slope break to the HC6 channel. Class II fish habitat begins just downstream from the SW corner of the unit.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: Yes RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High habitat value. Recommend leaving snags where possible</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 7223 QUAD(s): SITB5SE
 ACRES: 14 VOLUME: 353 MBF HARVEST VOLUME: 283 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 80

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



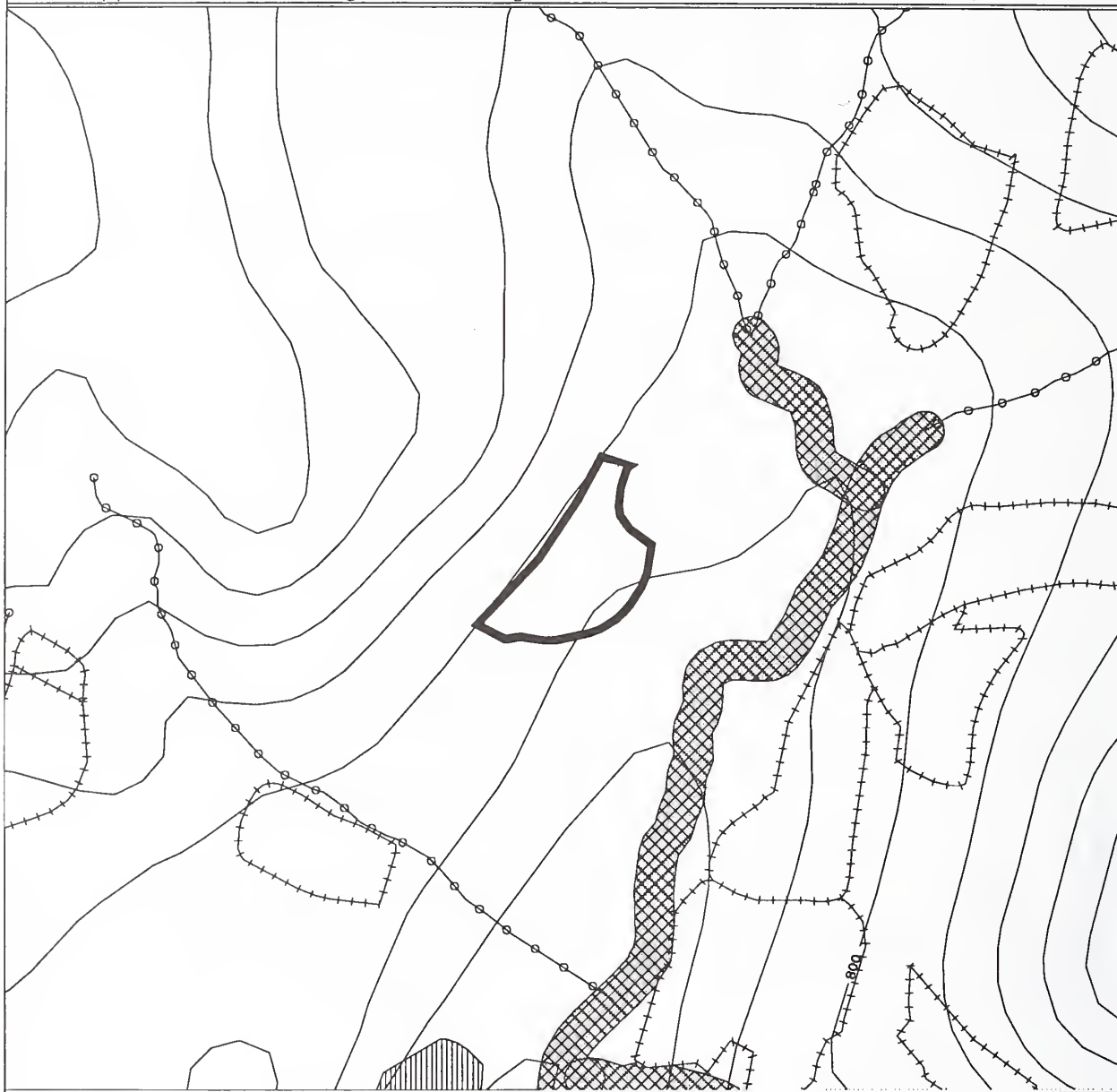
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7223	VCU: 300
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is mixed conifer/blueberry, Silvicultural diagnosis for treatment is medium canopy retention, Protect soils where possible, Consider overstory removal to release cedar understory and retain portion of overstory.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. No other concerns.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No soils concerns.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist or Soil Scientist REMARKS: At least two v-notches in the center of the unit should be marked in orange/white flagging, and protected as per BMP 13.3, category "E." Maintain a vegetated buffer between the upper end of the HC6 channel and the unit, with selective removal of merchantable trees (BMP 13.16).	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 7262 QUAD(s): SITB5SE
 ACRES: 12 VOLUME: 335 MBF HARVEST VOLUME: 268 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 80

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



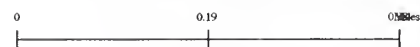
EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7262

VCU: 300

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is mixed conifer/blueberry/skunk cabbage,
 Silvicultural diagnosis for treatment is low canopy retention, Clearcut with
 reserves. Consider planting cedar. Unit very dissected with shallow soils.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Helicopter yarding required. Soils concerns.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Bad areas have been deleted; remaining unit looks OK.

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Three v-notches that bisect the unit should be marked in orange/white
 flagging, and protected as per BMP 13.3, category "B."

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: High subsistence value. High habitat value. Recommend leaving snags
 where possible and leaving reserve trees near edge of unit

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

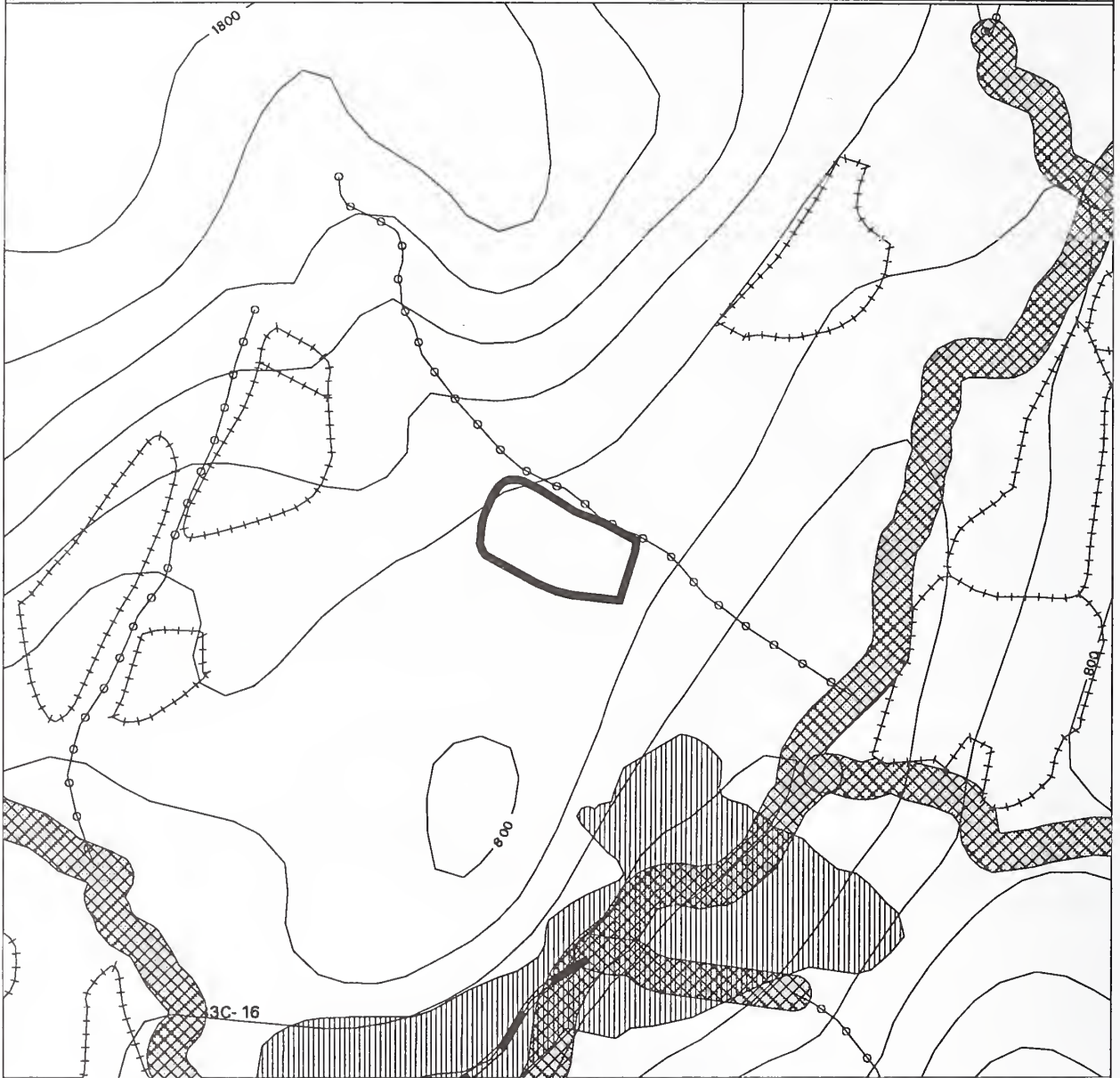
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 7264 QUAD(s): SITB5SE
 ACRES: 9 VOLUME: 268 MBF HARVEST VOLUME: 255 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY	
UNIT BOUNDARY	
ADJACENT UNIT	
NEW SPEC. ROAD	
TEMPORARY ROAD	
EXISTING SPEC. ROAD	
SHORELINE	
CLASS III STREAM	

0 0.19 0.38 Miles
 MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT	
EAGLE TREE	
EXISTING CLEARCUTS	
SALTWATER AND LAKES	
CLASS I & II STREAM BUFFER	



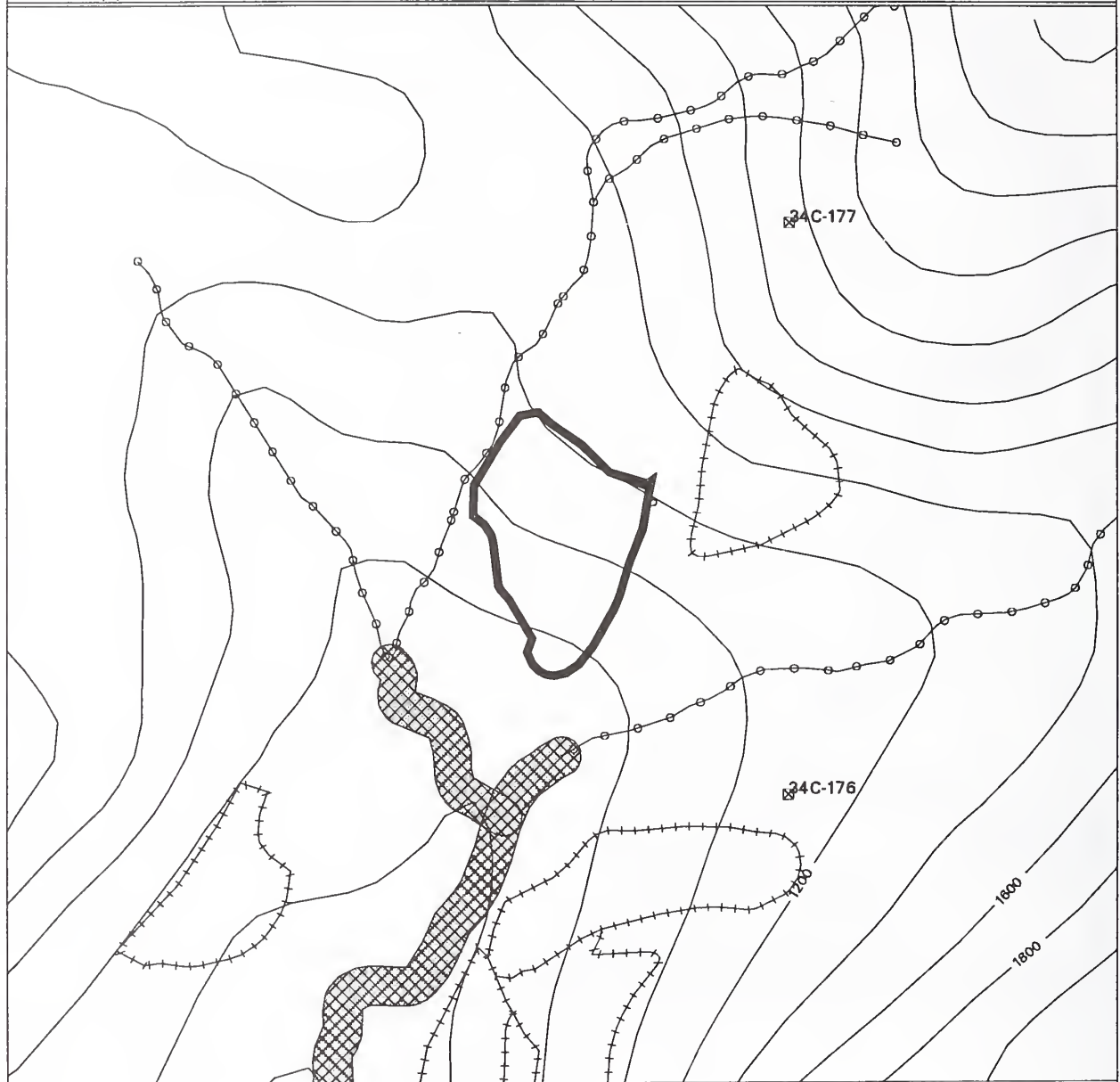
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7264	VCU: 300
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is mixed conifer/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. No other concerns.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist REMARKS: Small slumps have been identified and unit contains v-notches; recommend directional falling away from notches; full suspension will be provided by helicopter logging. See Fisheries comments.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist REMARKS: One or more branches of the mapped class III, HC6 channel runs through the northern part of the unit. Mark with orange/'white flagging, and protect as per BMP 13.3, category "B." Unit abuts an existing slide. Seek soils scientist aid in placing boundary on NW end to avoid triggering a slide in the mapped high hazard soils area.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. High habitat value. Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouder Kirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	









NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 7272 QUAD(s): SITB5SE
 ACRES: 23 VOLUME: 580 MBF HARVEST VOLUME: 116 MBF
 HARVEST PRESCRIPTION: Group Selection PERCENT VOLUME HARVESTED: 20






Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY 
 UNIT BOUNDARY 
 ADJACENT UNIT 
 NEW SPEC. ROAD 
 TEMPORARY ROAD 
 EXISTING SPEC. ROAD 
 SHORELINE 
 CLASS III STREAM 

0 0.19 Miles
 MAP SCALE 1:12000

PHOTO POINT 
 EAGLE TREE 
 EXISTING CLEARCUTS 
 SALTWATER AND LAKES 
 CLASS I & II STREAM BUFFER 

LOGGING SYSTEMS:

H HELICOPTER



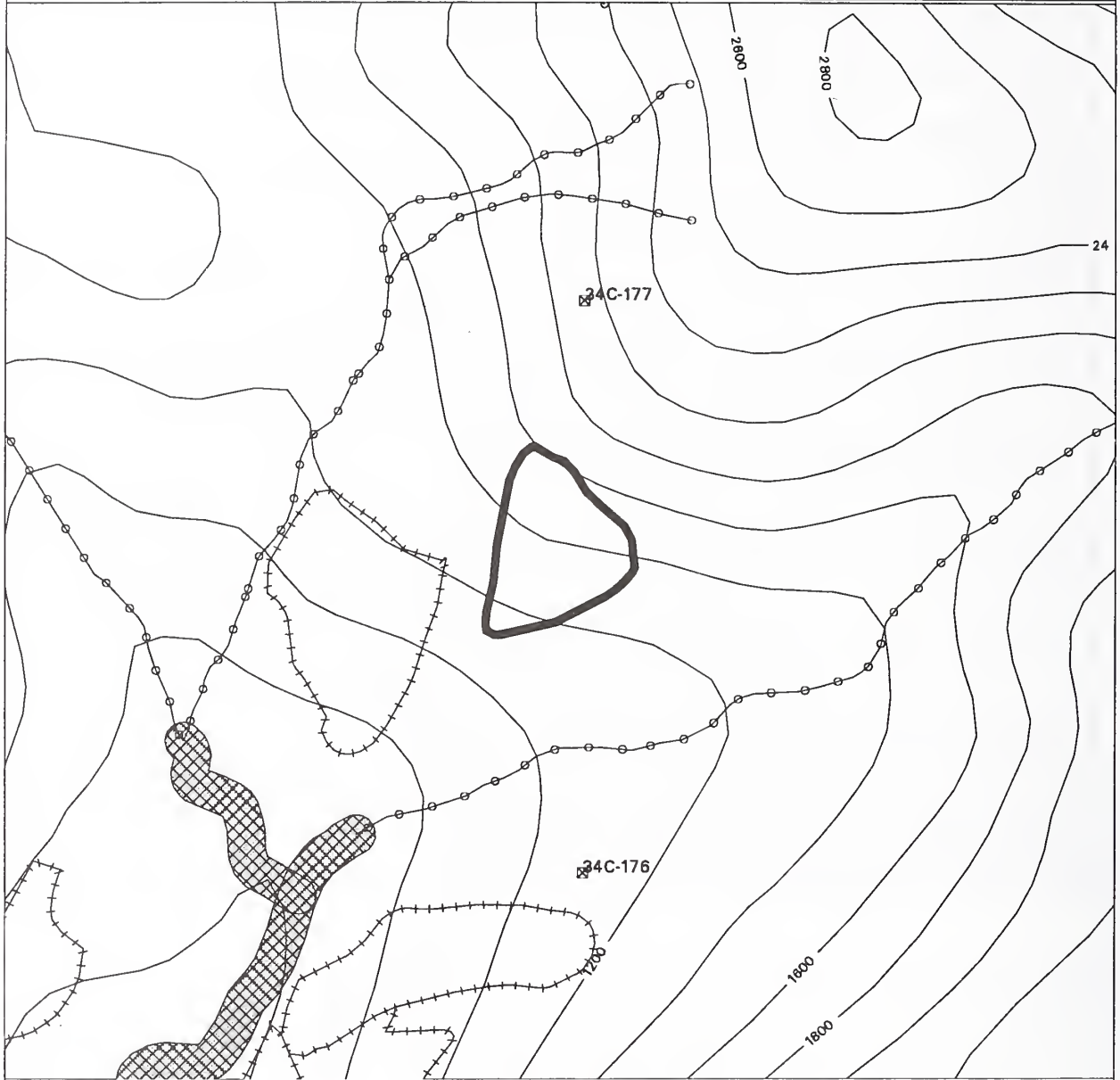
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7272	VCU: 300
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is high canopy retention, Consider group selection, keep size of groups less than 2 acres.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No soils concerns.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist or Hydrologist REMARKS: Corrugated v-notches split the unit. Five notches should be marked with orange/white flagging, and protected as per BMP 13.3, category "B."	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Where possible maintain wildlife travel corridor across unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 7273 QUAD(s): SITB5SE
 ACRES: 14 VOLUME: 353 MBF HARVEST VOLUME: 71 MBF
 HARVEST PRESCRIPTION: Group Selection PERCENT VOLUME HARVESTED: 20

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM

0 0.19 0.38 Miles
 MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



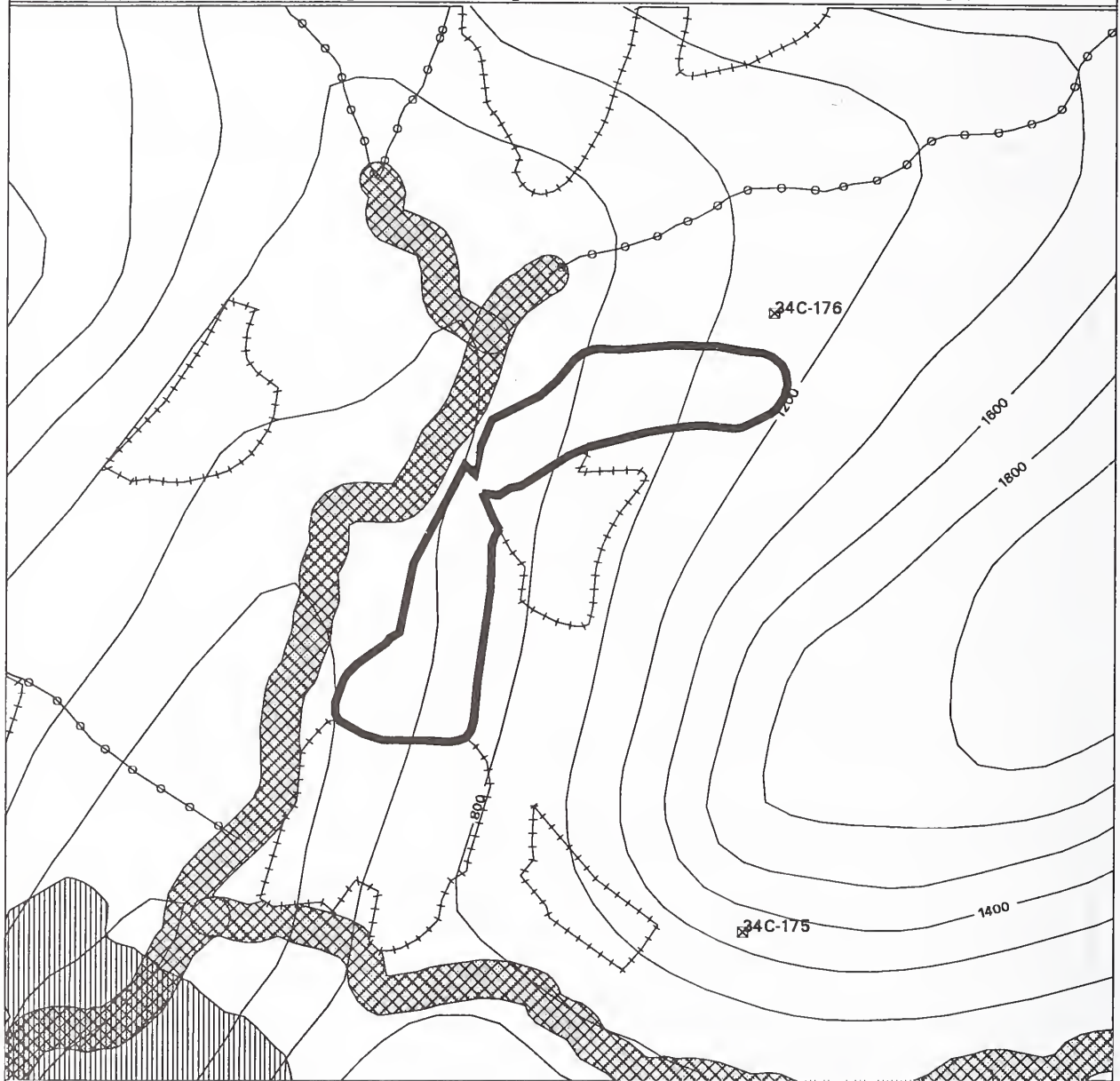
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7273	VCU: 300
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is mountain hemlock-Sitka spruce/blueberry and western hemlock-Alaska cedar/blueberry, Silvicultural diagnosis for treatment is high canopy retention, Consider group selection, with groups less than 2 acres in size.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend that group selections are located so as to minimize impact to the notches in the unit; full suspension will be provided by helicopter logging.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Mark v-notch in center of unit with orange/white flagging, and protect as per BMP 13.3, category "B." Place west boundary at or above the slope break of the v-notch on the west boundary.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Where possible maintain wildlife travel corridor across unit. Unit is within 1500 feet of known mountain goat habitat. If mountain goats are present within 1500 feet of unit, helicopter yarding should be avoided from May 15 through June 15 (kidding season).	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 7281 QUAD(s): SITB5SE
 ACRES: 38 VOLUME: 1009 MBF HARVEST VOLUME: 202 MBF
 HARVEST PRESCRIPTION: Group Selection PERCENT VOLUME HARVESTED: 20

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



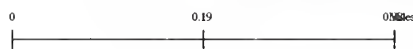
SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL



MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7281

VCU: 300

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is high canopy retention, Consider group selection with groups less than 2 acres in size.

{ TIMBER } FIELD REVIEWED: No RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns. Helicopter yarding required.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist
 REMARKS: Unit is dissected and contains old slumps and wet areas; request that a soil scientist be present during layout to help determine location of group selections; full suspension will be provided by helicopter logging.

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Five v-notches split the unit. Mark with orange/white flagging and protect as per BMP 13.3, category "B." Protect mapped class II, MC2 channel west of unit as per BMP 12.6a and 12.6.

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: High subsistence value. High habitat value. Where possible maintain wildlife travel corridor across unit

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

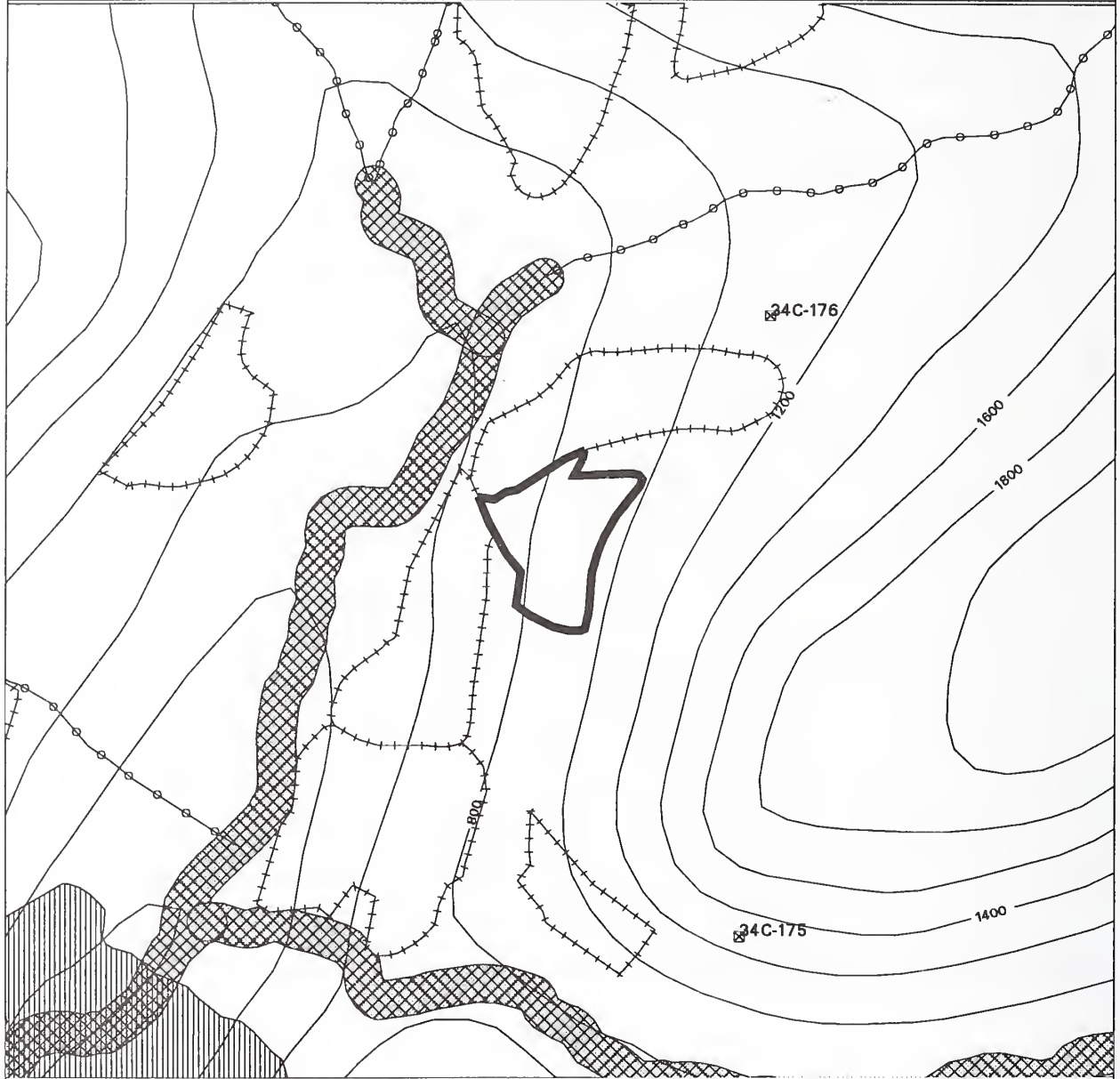
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area









NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 7282 QUAD(s): SITB5SE
 ACRES: 12 VOLUME: 303 MBF HARVEST VOLUME: 61 MBF
 HARVEST PRESCRIPTION: Group Selection PERCENT VOLUME HARVESTED: 20






Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY 
 UNIT BOUNDARY 
 ADJACENT UNIT 
 NEW SPEC. ROAD 
 TEMPORARY ROAD 
 EXISTING SPEC. ROAD 
 SHORELINE 
 CLASS III STREAM 

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT 
 EAGLE TREE 
 EXISTING CLEARCUTS 
 SALTWATER AND LAKES 
 CLASS I & II STREAM BUFFER 

LOGGING SYSTEMS:

H HELICOPTER



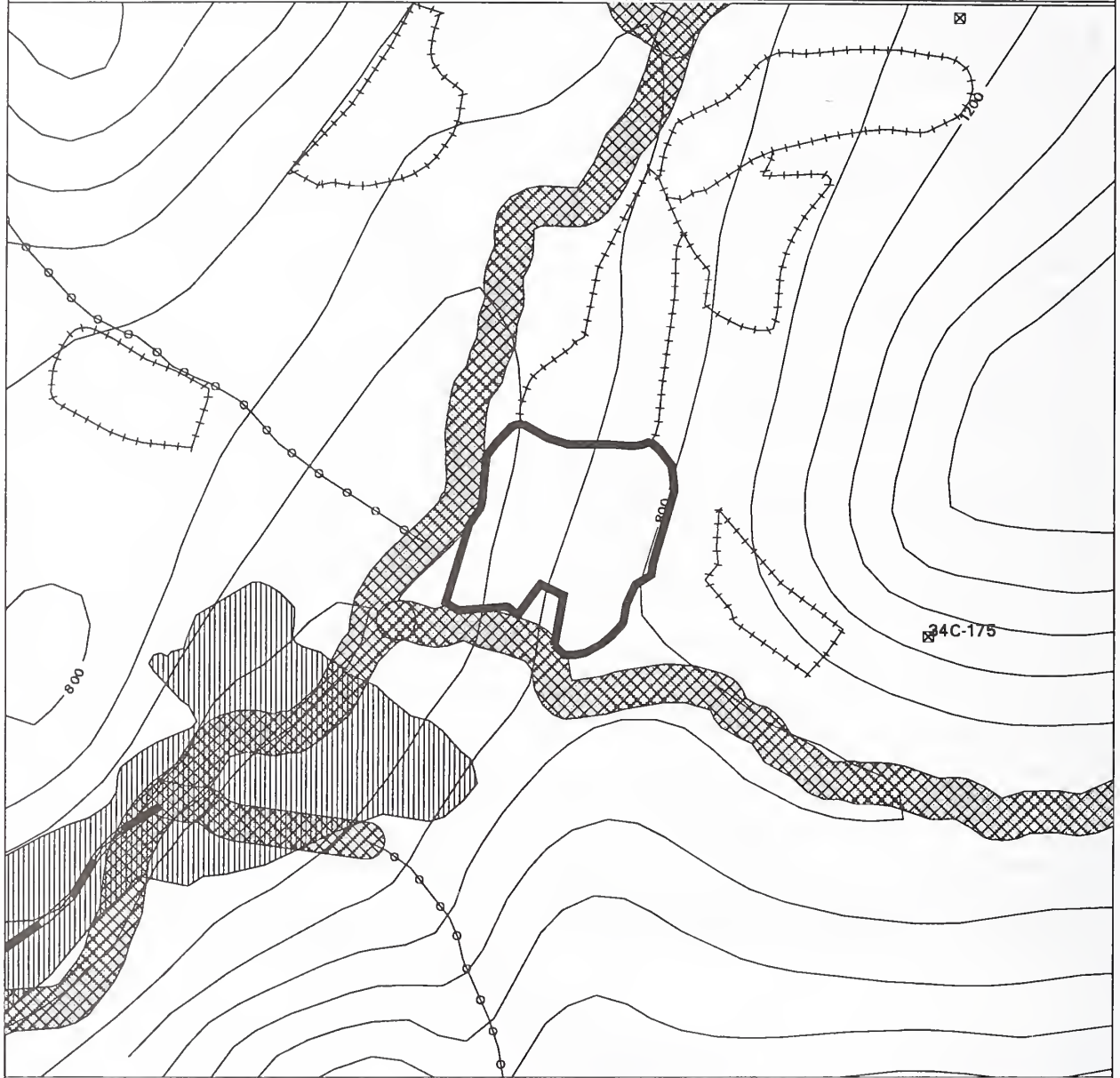
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7282	VCU: 300
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is high canopy retention, Consider group selection with group size less than 2 acres.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist REMARKS: Unit contains oversteepened slopes, some existing slumps and slides, and is dissected; request soil scientist presence during layout to help determine where group selections will be made.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Two v-notches split the unit. Mark with orange/white flagging and protect as per BMP 13.3, category "B."	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Where possible maintain wildlife travel corridor across unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 7283 QUAD(s): SITB5SE
 ACRES: 27 VOLUME: 800 MBF HARVEST VOLUME: 160 MBF
 HARVEST PRESCRIPTION: Group Selection PERCENT VOLUME HARVESTED: 20

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



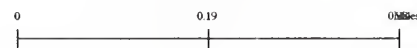
EXISTING SPEC. ROAD



SHORELINE



CLASS III STREAM



MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



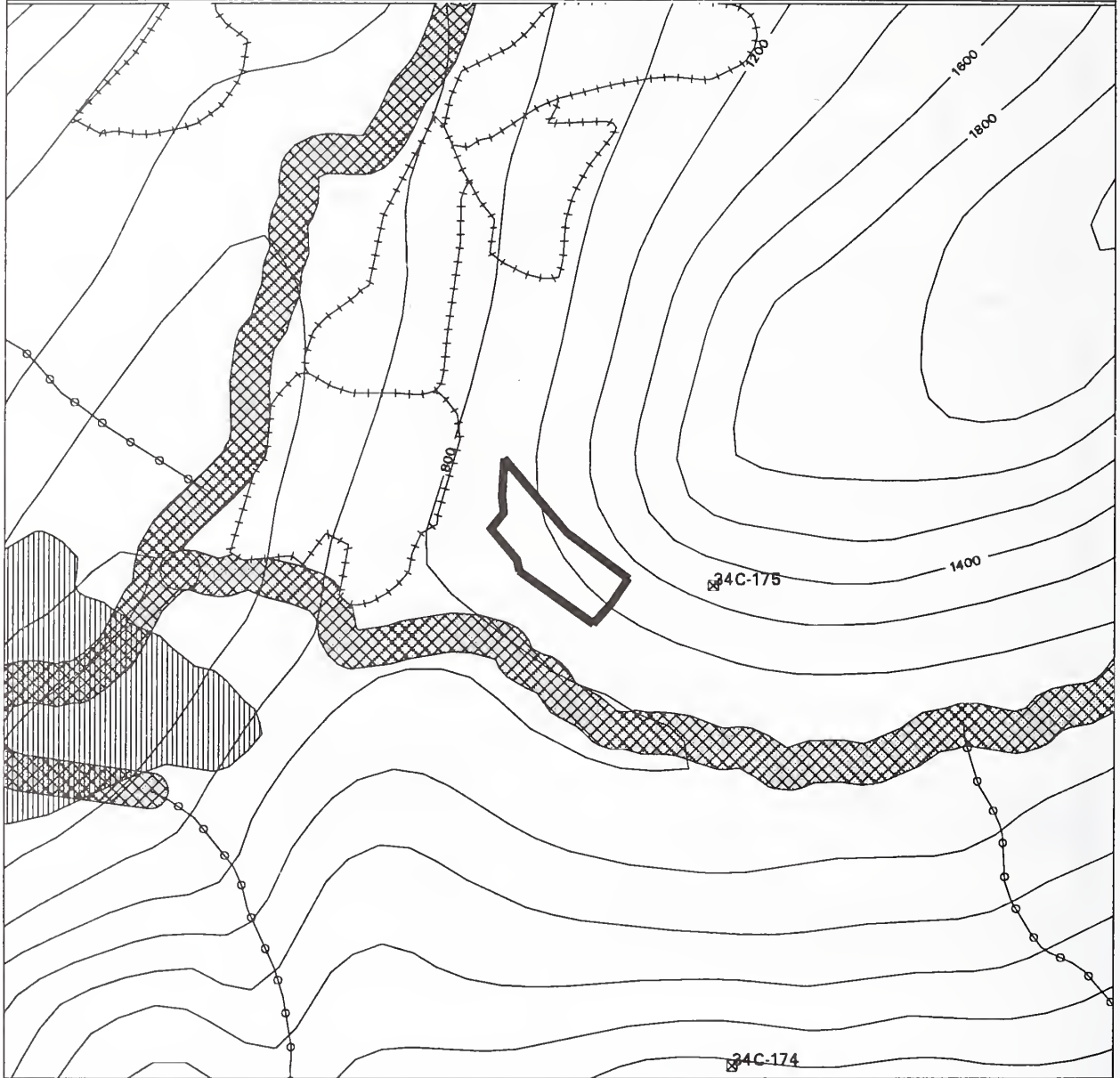
NORTHWEST BARANOF HARVEST UNIT CARD









UNIT: 7283	VCU: 300
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is high canopy retention, Consider group selection with size of groups less than 2 acres.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Bad areas have been deleted; remaining unit looks OK.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: A v-notch splits the unit. Mark with orange/white flagging and protect as per BMP 13.3, category "B." Protect mapped class II, MC2 channel west of unit as per BMP 12.6a and 12.6. Protect class III (incorrectly mapped as class II in GIS), HC3 channel south of unit with buffer as per BMP 13.16.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. High habitat value. Where possible maintain wildlife travel corridor across unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 7284 QUAD(s): SITB5SE
 ACRES: 7 VOLUME: 181 MBF HARVEST VOLUME: 36 MBF
 HARVEST PRESCRIPTION: Group Selection PERCENT VOLUME HARVESTED: 20

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY 
 UNIT BOUNDARY 
 ADJACENT UNIT 
 NEW SPEC. ROAD 
 TEMPORARY ROAD 
 EXISTING SPEC. ROAD 
 SHORELINE 
 CLASS III STREAM 

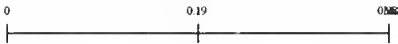





200 FT CONTOUR INTERVAL

 MAP SCALE 1:12000

PHOTO POINT 
 EAGLE TREE 
 EXISTING CLEARCUTS 
 SALTWATER AND LAKES 
 CLASS I & II STREAM BUFFER 

LOGGING SYSTEMS:

H HELICOPTER



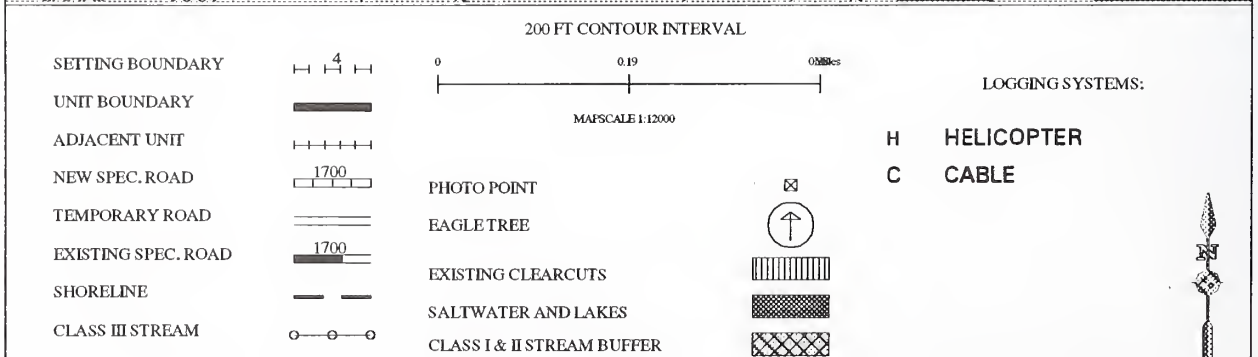
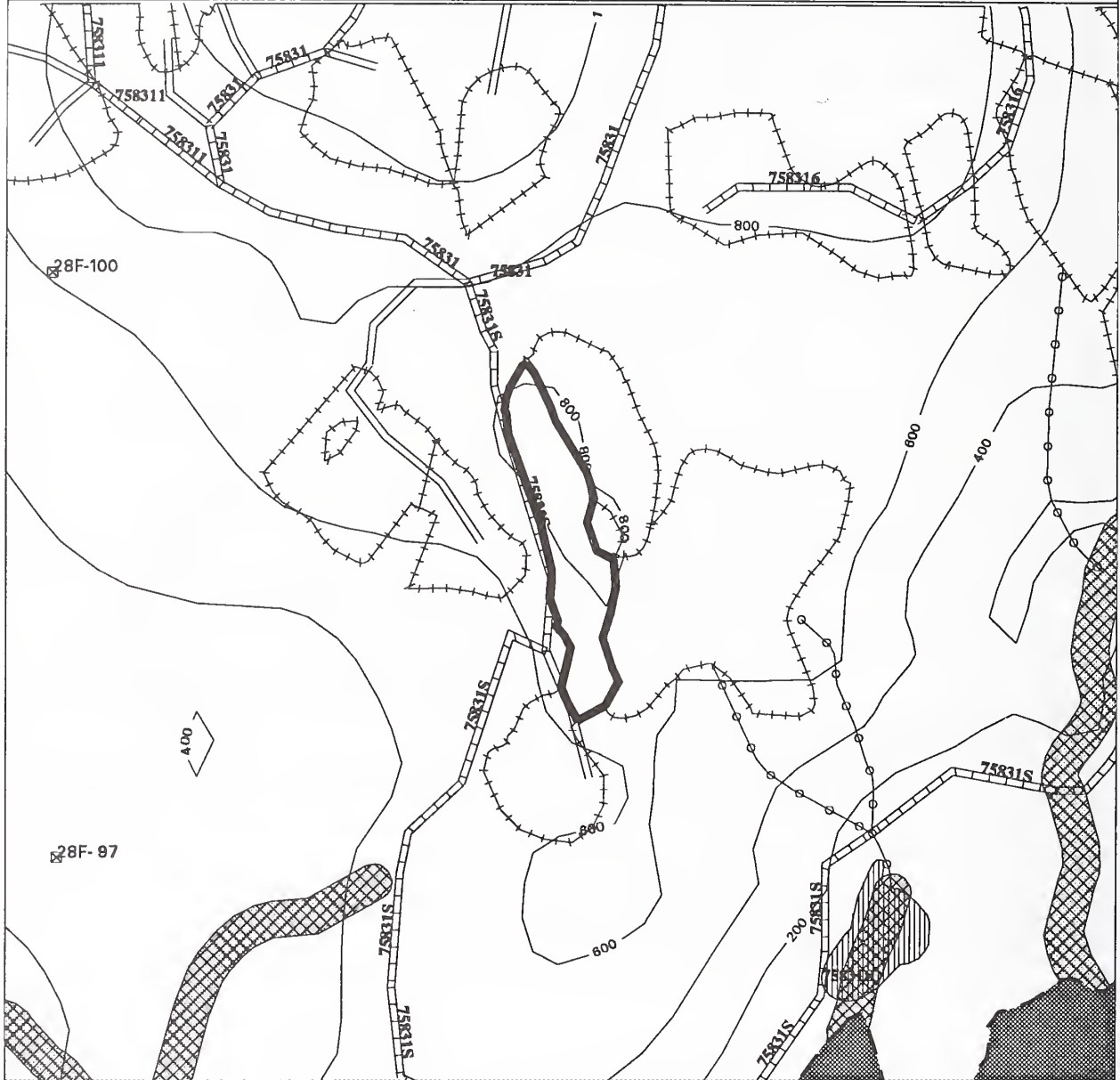
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7284	VCU: 300
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is high canopy retention, Consider group selection with size of groups 2 acres or less.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist REMARKS: Many of the bad areas have been deleted; some oversteep slopes, existing slides or slumps, and v-notches remain; request soils scientist presence during layout to help determine location of group selections.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Mark v-notch in center of unit with orange/white flagging, and protect as per BMP 13.3, category "B." Protect class III HC3 channel to south of unit with buffer as per BMP 13.16.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Where possible maintain wildlife travel corridor across unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 302 UNIT NUMBER: 7291 QUAD(s): SITB5SW
 ACRES: 14 VOLUME: 353 MBF HARVEST VOLUME: 141 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 40

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7291

VCU: 300/302

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Sitka spruce/blueberry, Silvicultural diagnosis for treatment is medium canopy retention, Protect soils where possible.
 Consider overstory removal to protect soils and retain portion of overstory.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Live Skyline on 5 acres. Remove up to 1/3 of volume to retain root strength. The rest of unit needs to be helicopter yarded with full suspension.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Most of the bad areas have been deleted but some oversteepened and unstable areas remain; helicopter logging will provide full suspension to minimize disturbance to these areas.

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: None Provided

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

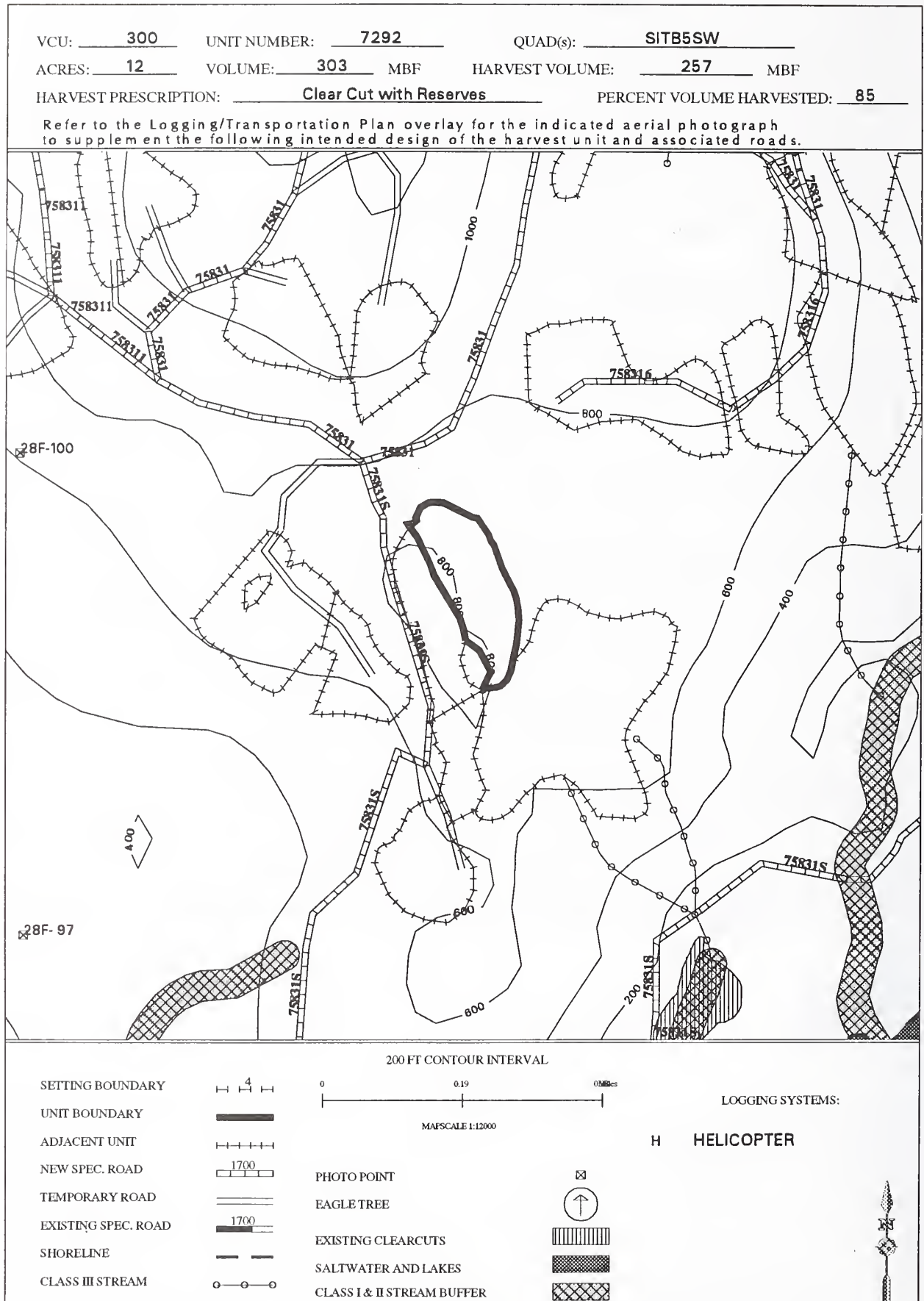
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: High subsistence value. Recommend leaving snags where possible

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within VQO.

{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP



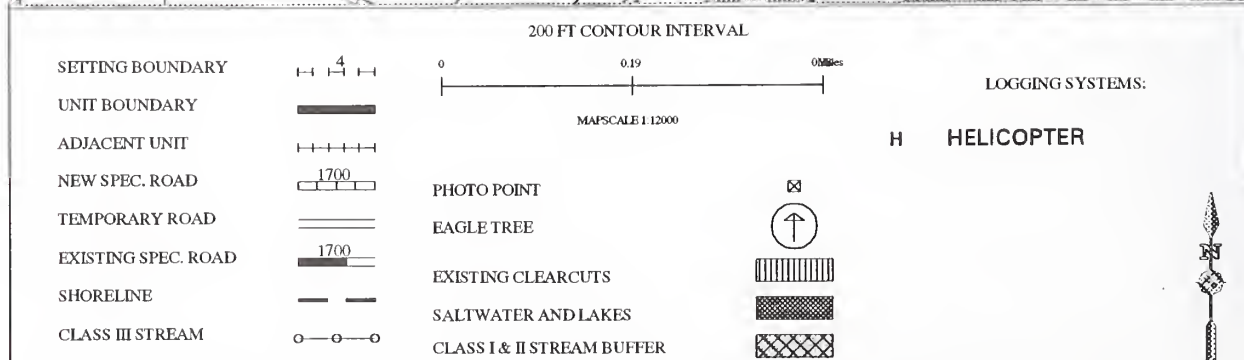
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7292	VCU: 300/302
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, <u>Silvicultural diagnosis for treatment is low canopy retention, Protect soils</u> where possible, Clearcut with reserves. Consider planting cedar.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Most of the bad areas have been deleted but some wet and oversteepened areas remain; disturbance to soils will be minimized by full suspension provided by helicopter logging.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: None Provided</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 300 UNIT NUMBER: 7293 QUAD(s): SITB5SW
 ACRES: 34 VOLUME: 858 MBF HARVEST VOLUME: 815 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



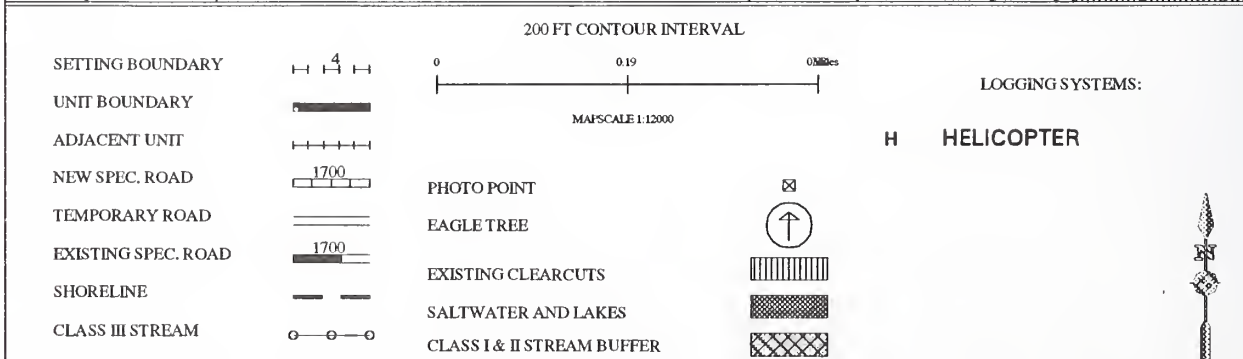
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 7293	VCU: 300/302
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Cliffs in vicinity of northwest corner of unit - ensure boundary avoids this area; helicopter logging will provide full suspension over unit which will minimize soil disturbance.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: None Provided	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Very high subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit as planned does not meet VQO.	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 299 UNIT NUMBER: 8011 QUAD(s): SITB4SW
 ACRES: 6 VOLUME: 179 MBF HARVEST VOLUME: 170 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



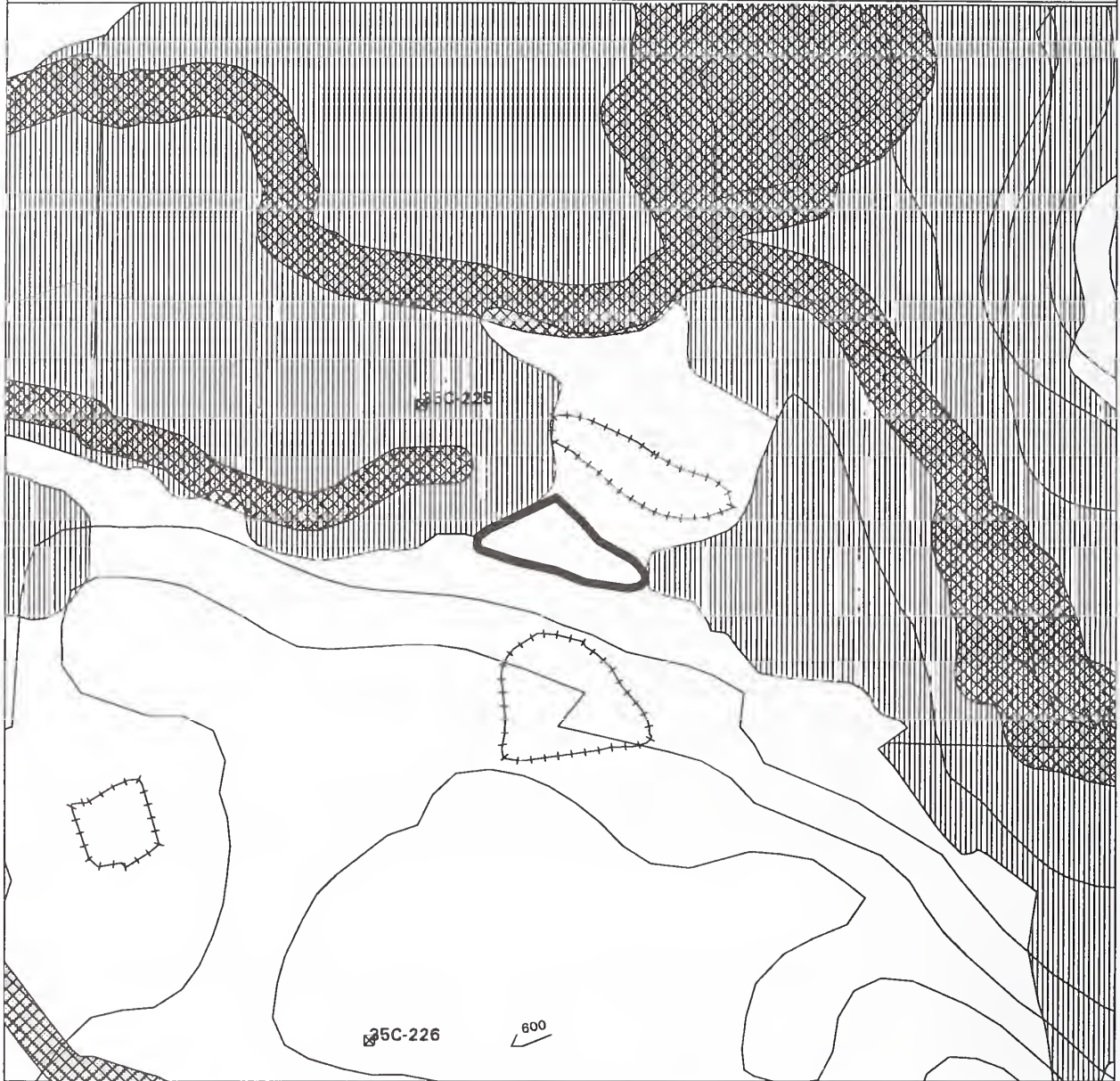
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 8011 VCU: 299		
{ SILVICULTURE }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Dougan
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves.		
{ TIMBER }	FIELD REVIEWED: Yes	RECOMMENDED BY: L.Mork
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Helicopter yarding required.		
{ LANDS }	FIELD REVIEWED: No	RECOMMENDED BY: J.Morrell
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No Concerns		
{ SOILS }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Huecker
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No soils concerns.		
{ FISHERIES }	FIELD REVIEWED: No	RECOMMENDED BY: B.Lorenz
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No concerns.		
{ HYDROLOGY }	FIELD REVIEWED: No	RECOMMENDED BY: D.Kelliher
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: See Fisheries For Remarks		
{ WILDLIFE }	FIELD REVIEWED: No	RECOMMENDED BY: C.Hartmann
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: High subsistence value. High habitat value. Recommend leaving snags where possible and leaving reserve trees near edge of unit		
{ VISUALS }	FIELD REVIEWED: Yes	RECOMMENDED BY: E.Ouderkirk
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Within visual quality objective		
{ RECREATION }	FIELD REVIEWED: No	RECOMMENDED BY: B.Flynn
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ HERITAGE }	FIELD REVIEWED: Yes	RECOMMENDED BY: R.Myron
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Archeological survey completed for unit 8011. No sites identified.		

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 299 UNIT NUMBER: 8021 QUAD(s): SITB4SW
 ACRES: 6 VOLUME: 179 MBF HARVEST VOLUME: 170 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



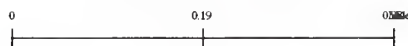
SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL



MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



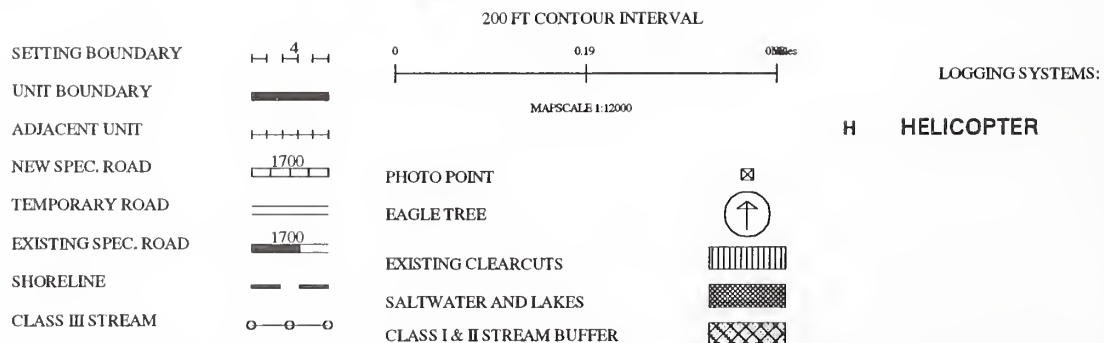
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 8021	VCU: 299
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No soils concerns.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. High habitat value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 299 UNIT NUMBER: 8022 QUAD(s): SITB4SW/SITA4NW
 ACRES: 11 VOLUME: 278 MBF HARVEST VOLUME: 250 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 90

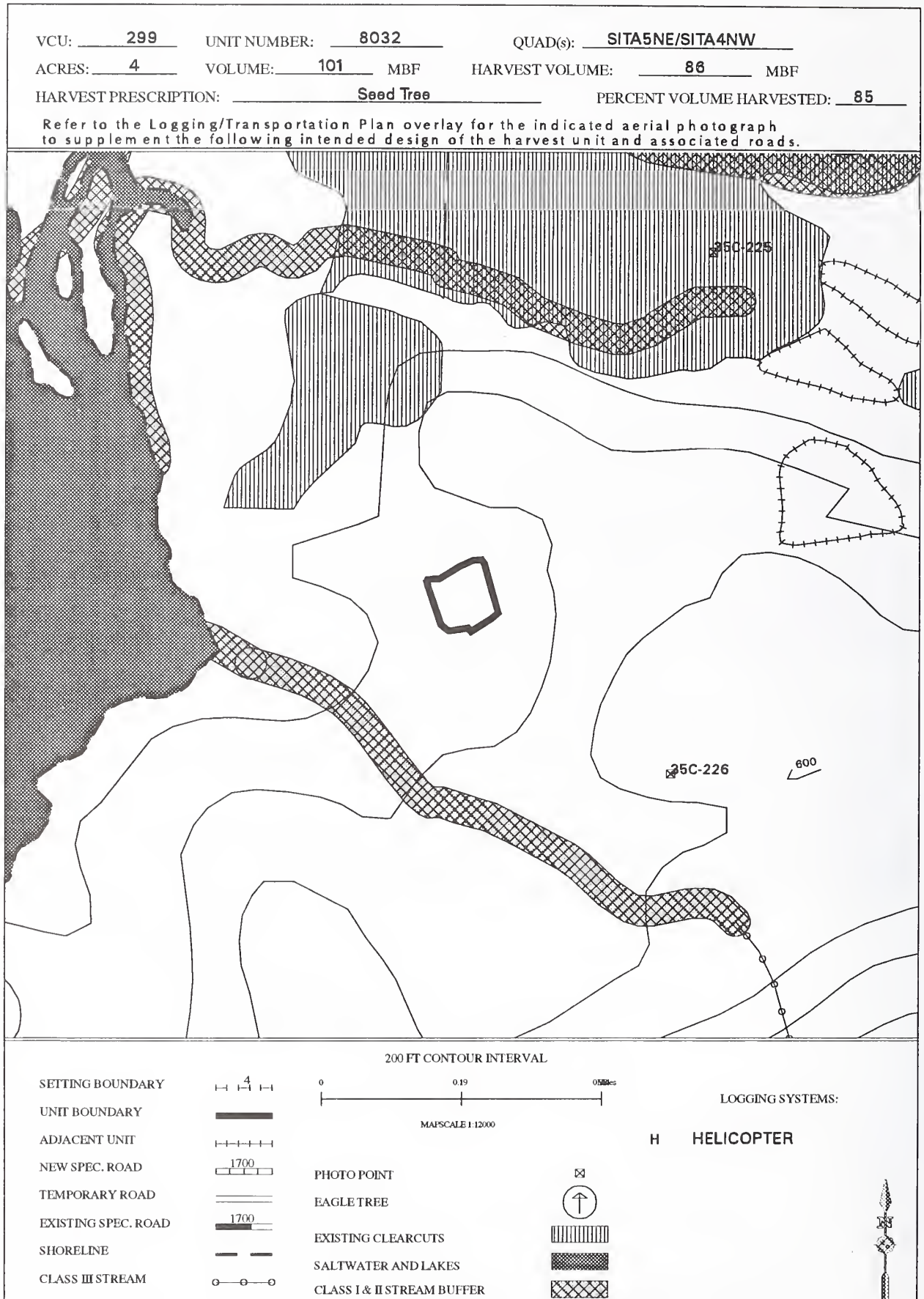
Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 8022	VCU: 299
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves. Northern boundary is oversteep in areas.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Some blowdown present; full suspension will be provided by helicopter logging.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No concerns.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP



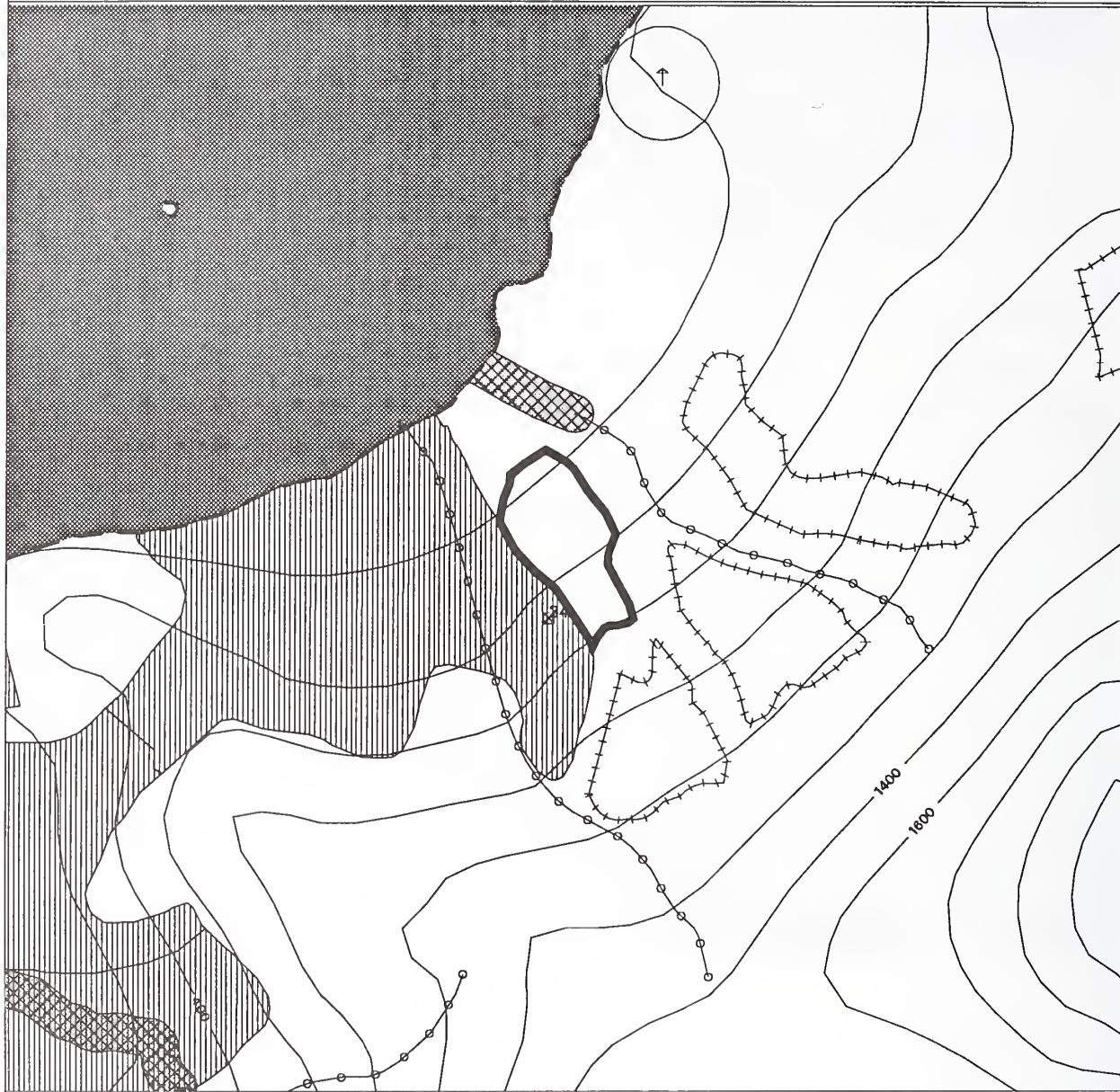
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 8032	VCU: 299
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Consider seed tree cut for cedar regen.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: Lands Forester REMARKS: Unit adjacent to Native allotment application J-10940, approved 1/28/93. Allotment boundaries need to be identified prior to unit layout to avoid encroachment.</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No soils concerns.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Mark v-notch in center of unit with orange/white flagging, and protect as per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Very high subsistence value. Recommend leaving snags where possible</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	









NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 299 UNIT NUMBER: 8061 QUAD(s): SITA5NE
 ACRES: 11 VOLUME: 328 MBF HARVEST VOLUME: 295 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 90






Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY 
 UNIT BOUNDARY 
 ADJACENT UNIT 
 NEW SPEC. ROAD 
 TEMPORARY ROAD 
 EXISTING SPEC. ROAD 
 SHORELINE 
 CLASS III STREAM 

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT 
 EAGLE TREE 
 EXISTING CLEARCUTS 
 SALTWATER AND LAKES 
 CLASS I & II STREAM BUFFER 

LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 8061

VCU: 299

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Western hemlock/blueberry, Silvicultural
 diagnosis for treatment is low canopy retention, Clearcut with reserves.
 Consider planting cedar.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Helicopter yarding required.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Some wet soils are present; full suspension will be provided by
 helicopter logging.

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist to verify extent of fish
 habitat.
 REMARKS: Two v-notches that split the unit, should be marked in orange/white
 flagging, and protected as per BMP 13.3, category "B." Place east unit
 boundary at or above the slope break of the class III, HC6 channels. Mark
 class I and II fish habitat in blue/white flagging, and protect as per BMP
 12.6a and 12.6.

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Very high subsistence value. Recommend leaving snags where possible
 and leaving reserve trees near edge of unit

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

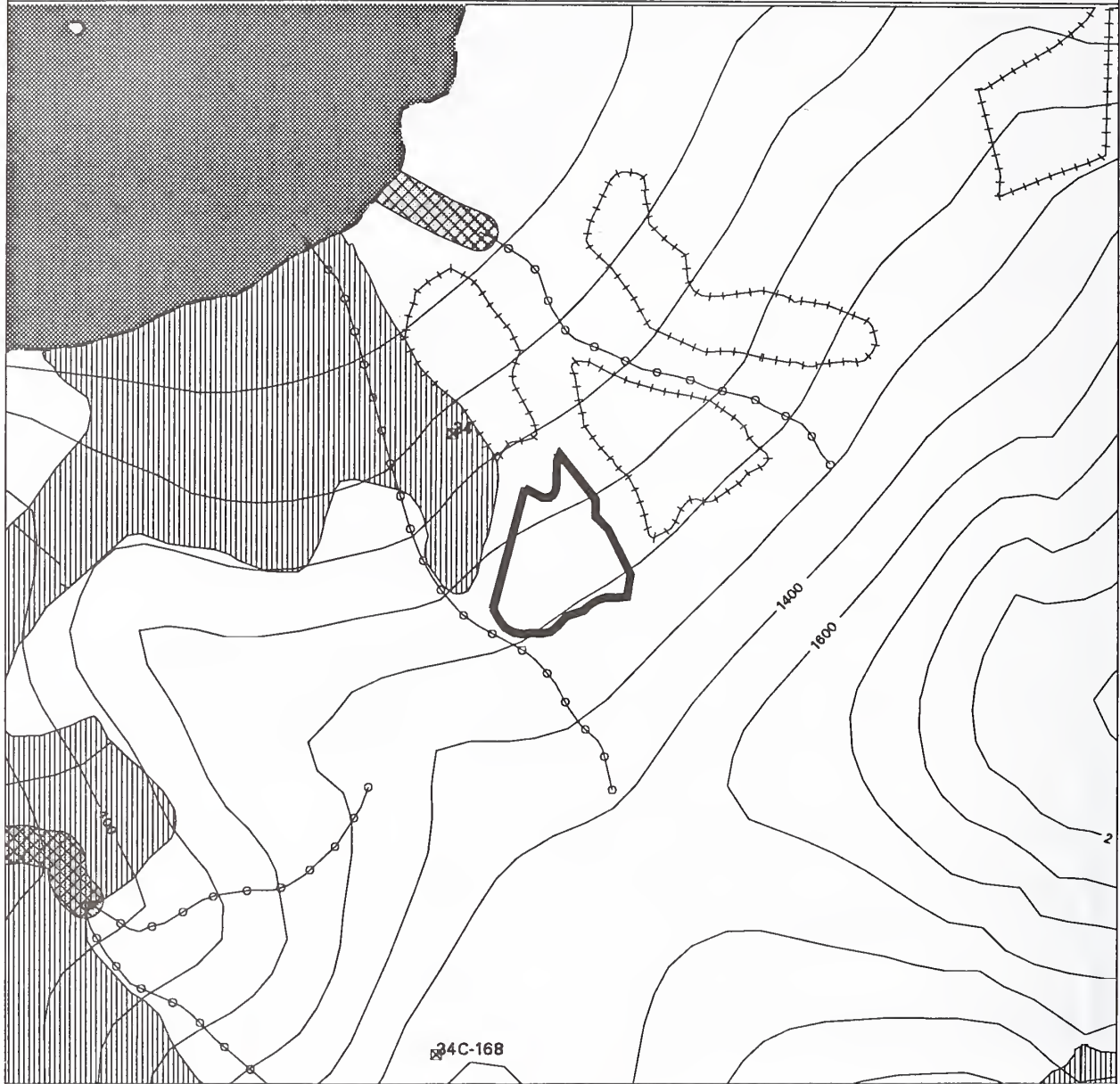
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

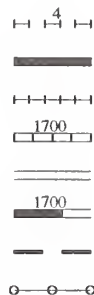
NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 299 UNIT NUMBER: 8062 QUAD(s): SITA5NE
 ACRES: 11 VOLUME: 278 MBF HARVEST VOLUME: 236 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 85

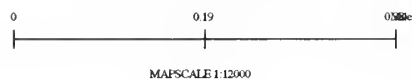
Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 NEW SPEC. ROAD
 TEMPORARY ROAD
 EXISTING SPEC. ROAD
 SHORELINE
 CLASS III STREAM



200 FT CONTOUR INTERVAL



LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT
 EAGLE TREE
 EXISTING CLEARCUTS
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



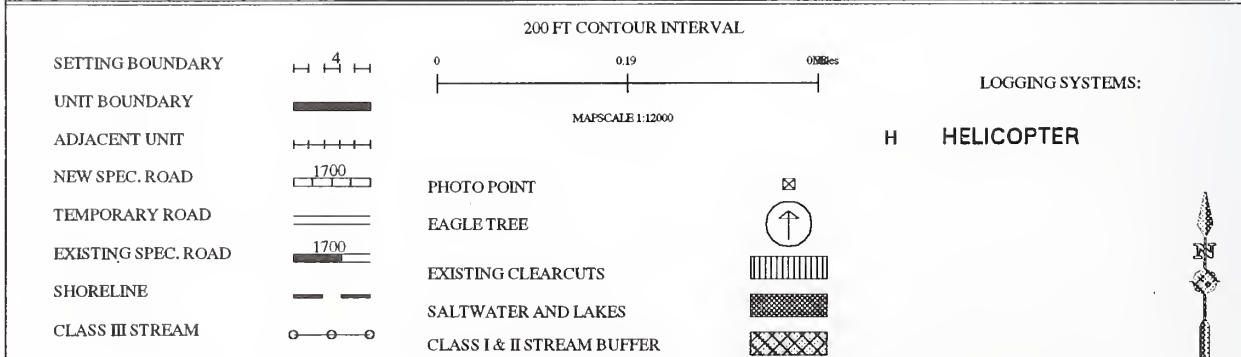
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 8062	VCU: 299
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Oversteepened areas have been deleted; rest of unit looks OK.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Two v-notches that split the unit, should be marked in orange/white flagging, and protected as per BMP 13.3, category "B." Place east unit boundary at or above the slope break of the class III, HC6 channels.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Very high subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 299 UNIT NUMBER: 8063 QUAD(s): S1A5NE
 ACRES: 14 VOLUME: 362 MBF HARVEST VOLUME: 290 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 80

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



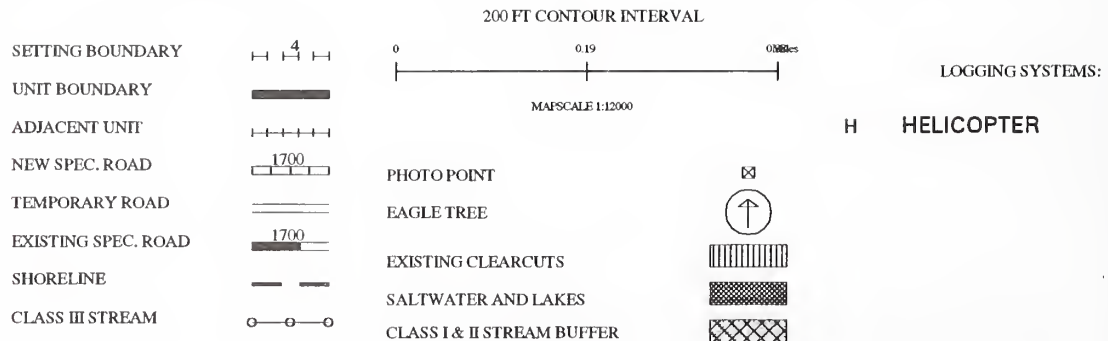
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 8063	VCU: 299
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Protect soils where possible, Clearcut with reserves.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Directionally fall trees away from notches; helicopter logging will provide full suspension over remaining steep areas.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Protect two v-notches that split the unit as per BMP 13.3, category "B." Place NE and SW unit boundary at or above the slope break of the class III, HC6 channels.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Very high subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit as planned does not meet VQO. Feather side boundaries to replicate natural openings.</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 299 UNIT NUMBER: 8064 QUAD(s): S1A5NE
 ACRES: 16 VOLUME: 404 MBF HARVEST VOLUME: 343 MBF
 HARVEST PRESCRIPTION: Seed Tree PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



NORTHWEST BARANOF HARVEST UNIT CARD

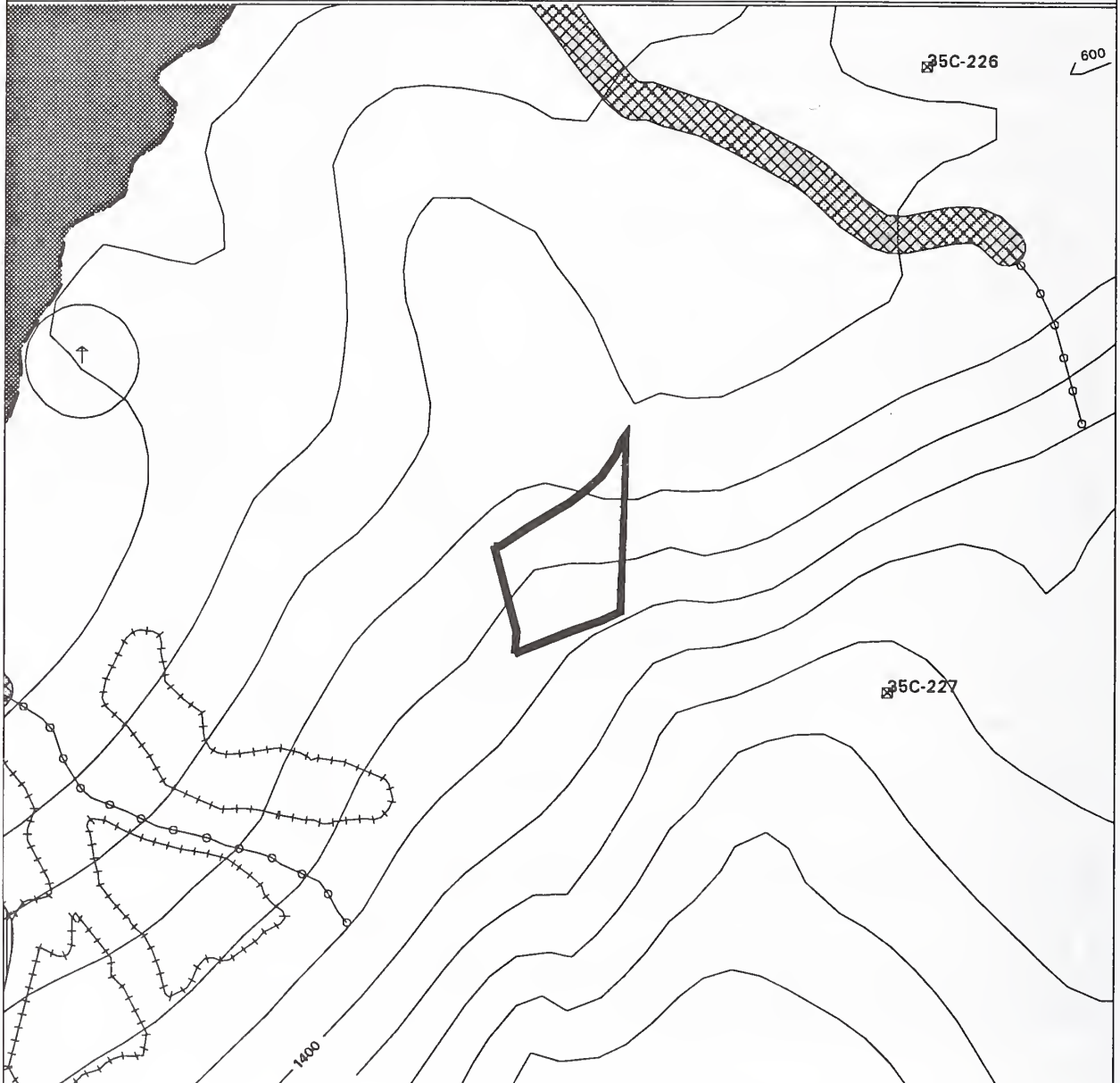
UNIT: 8064	VCU: 299
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Protect soils where possible, Consider seed tree cut for cedar regen.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Directionally fall trees away from notches; helicopter logging will provide full suspension over steep soils.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist to verify extent of Class I and II fish habitat. REMARKS: V-notches split the center of the unit. Protect as per BMP 13.3, category "B." Fish biologist field review of west end of the proposed unit. Mark class I and II fish habitat in blue/white flagging, and protect as per BMP 12.6a and 12.6.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Very high subsistence value. Recommend leaving snags where possible	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit as planned does not meet VQO. Feather side boundaries to replicate natural openings.	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD

PLANNED HARVEST UNIT MAP

VCU: 299 UNIT NUMBER: 8065 QUAD(s): SITA5NE/SITA4NW
 ACRES: 12 VOLUME: 303 MBF HARVEST VOLUME: 273 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 90

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



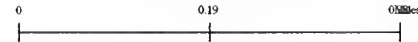
SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL



MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



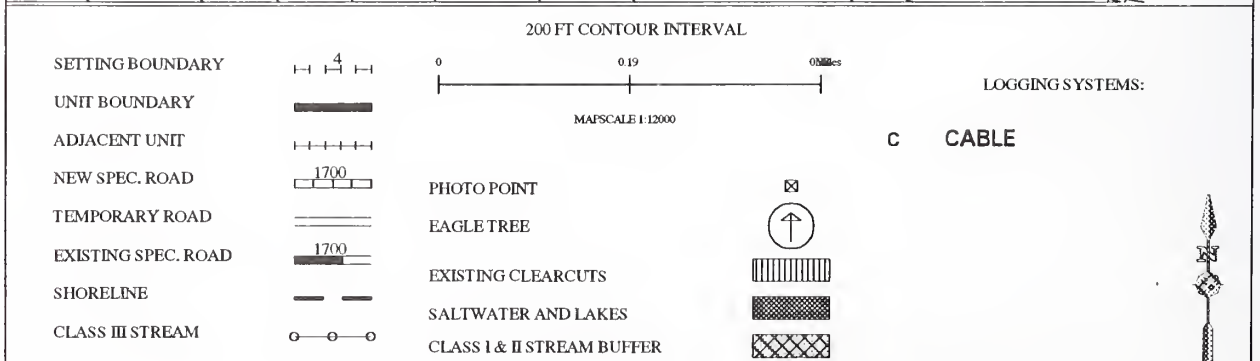
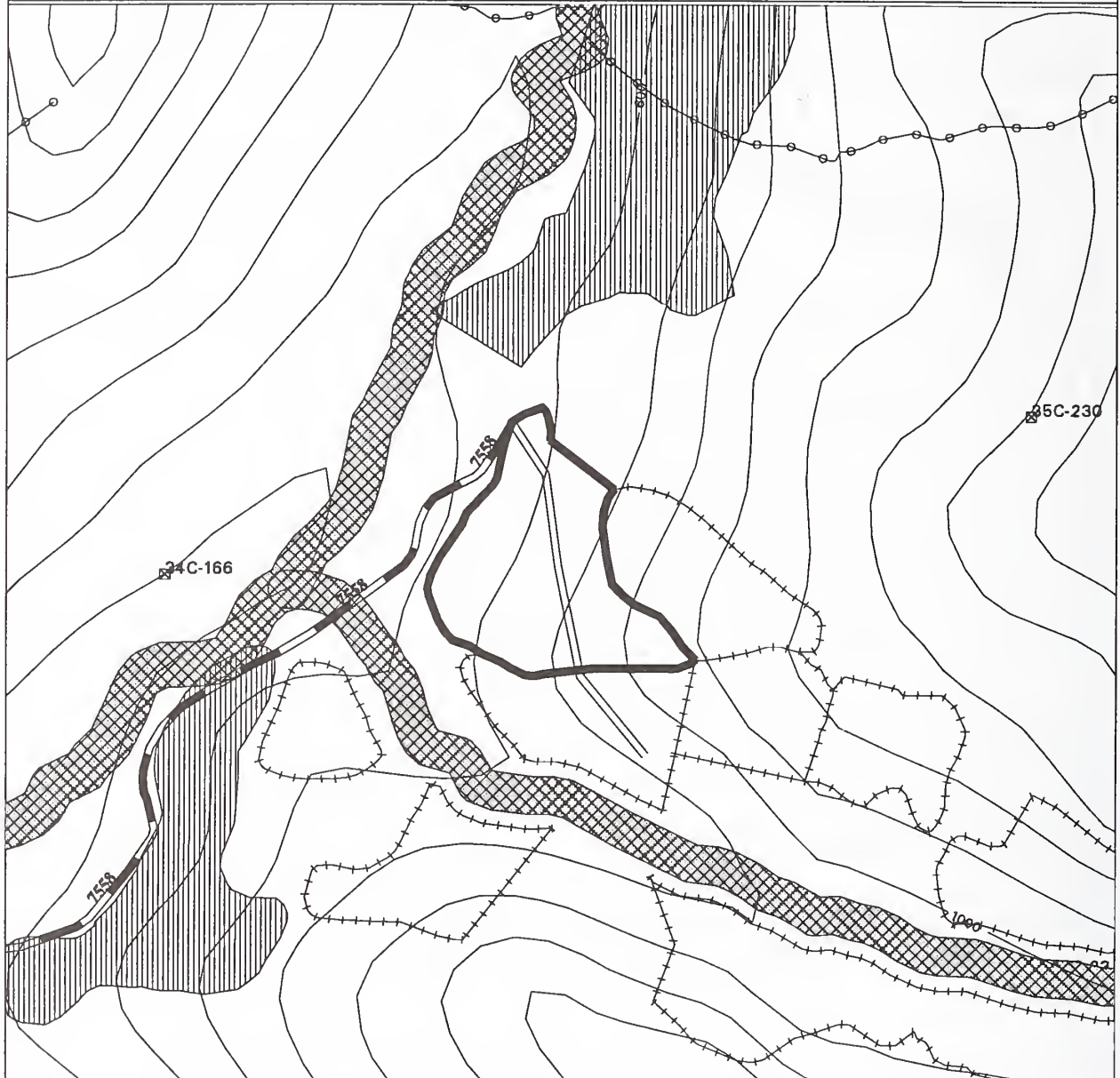
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 8065	VCU: 299
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Protect soils where possible, Clearcut with reserves.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: Lands Forester REMARKS: Unit is adjacent to Native allotment J-10940 approved 1/28/93. Allotment boundary needs to be identified prior to layout to avoid encroachment.	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Steep, unstable areas have been deleted; remainder of unit looks OK.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist REMARKS: Place east boundary at above slope break of large v-notch. Protect v-notch on west boundary as per BMP 13.3, category "B."	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Very high subsistence value. Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 301 UNIT NUMBER: 9011 QUAD(s): SITA5NE
 ACRES: 30 VOLUME: 757 MBF HARVEST VOLUME: 643 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



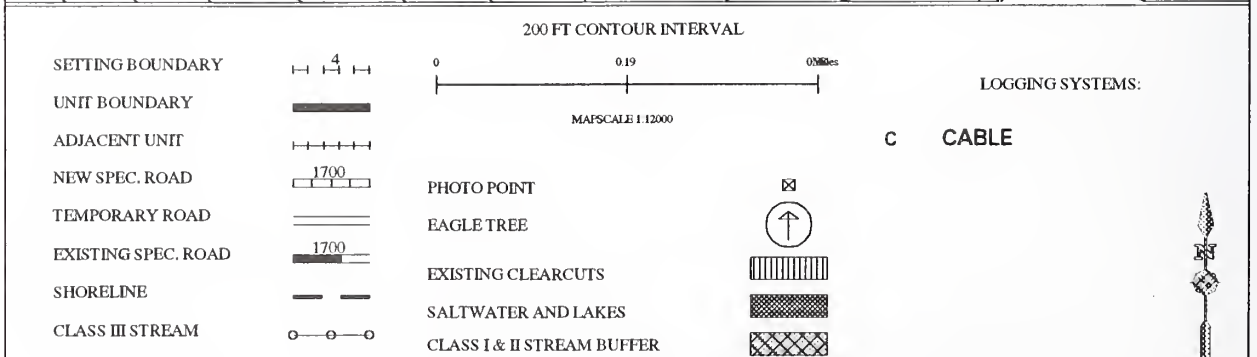
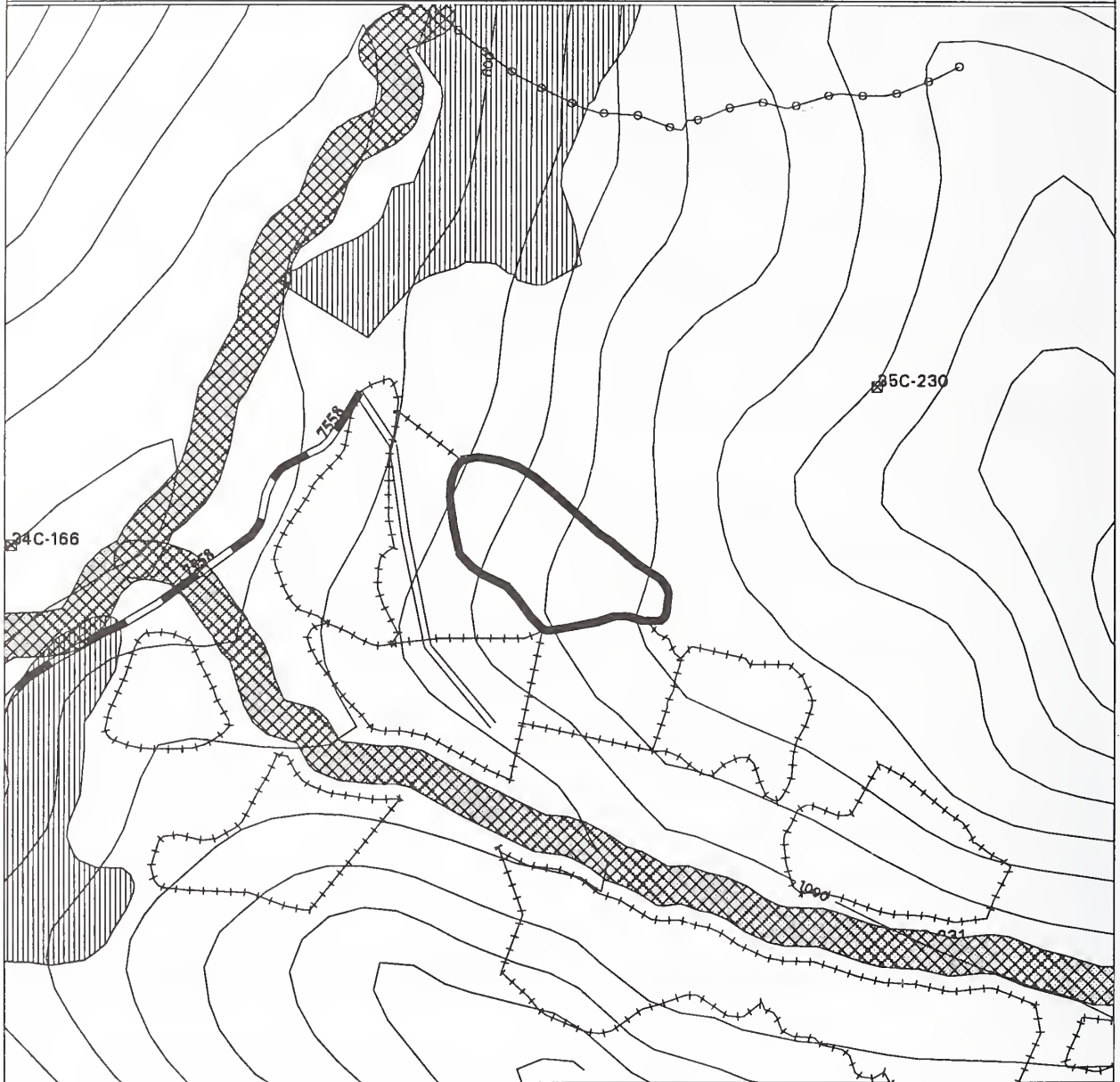
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 9011	VCU: 301
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves. Consider planting cedar.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Partial suspension required for soils protection. Profiles run from Landing 1. Partial suspension attained. 40 foot tail trees needed. Minimum 200' horizontal buffer on Lisa Cr.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: no concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist REMARKS: Unit contains some wet areas; recommend partial suspension to minimize surface disturbance. See Fisheries comments.</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist REMARKS: Two v-notches that split the unit should be protected as per BMP 13.3, category "B."</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. High habitat value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 301 UNIT NUMBER: 9012 QUAD(s): SITA5NE/SITA4NW
 ACRES: 17 VOLUME: 429 MBF HARVEST VOLUME: 408 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



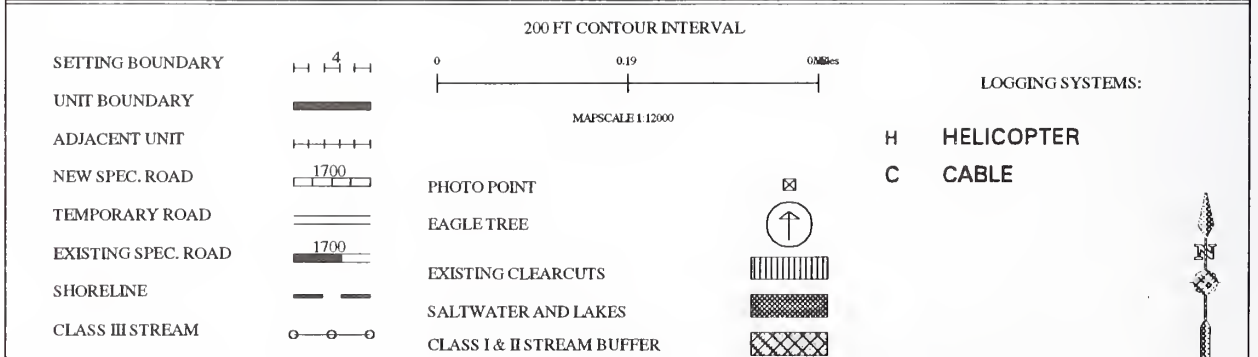
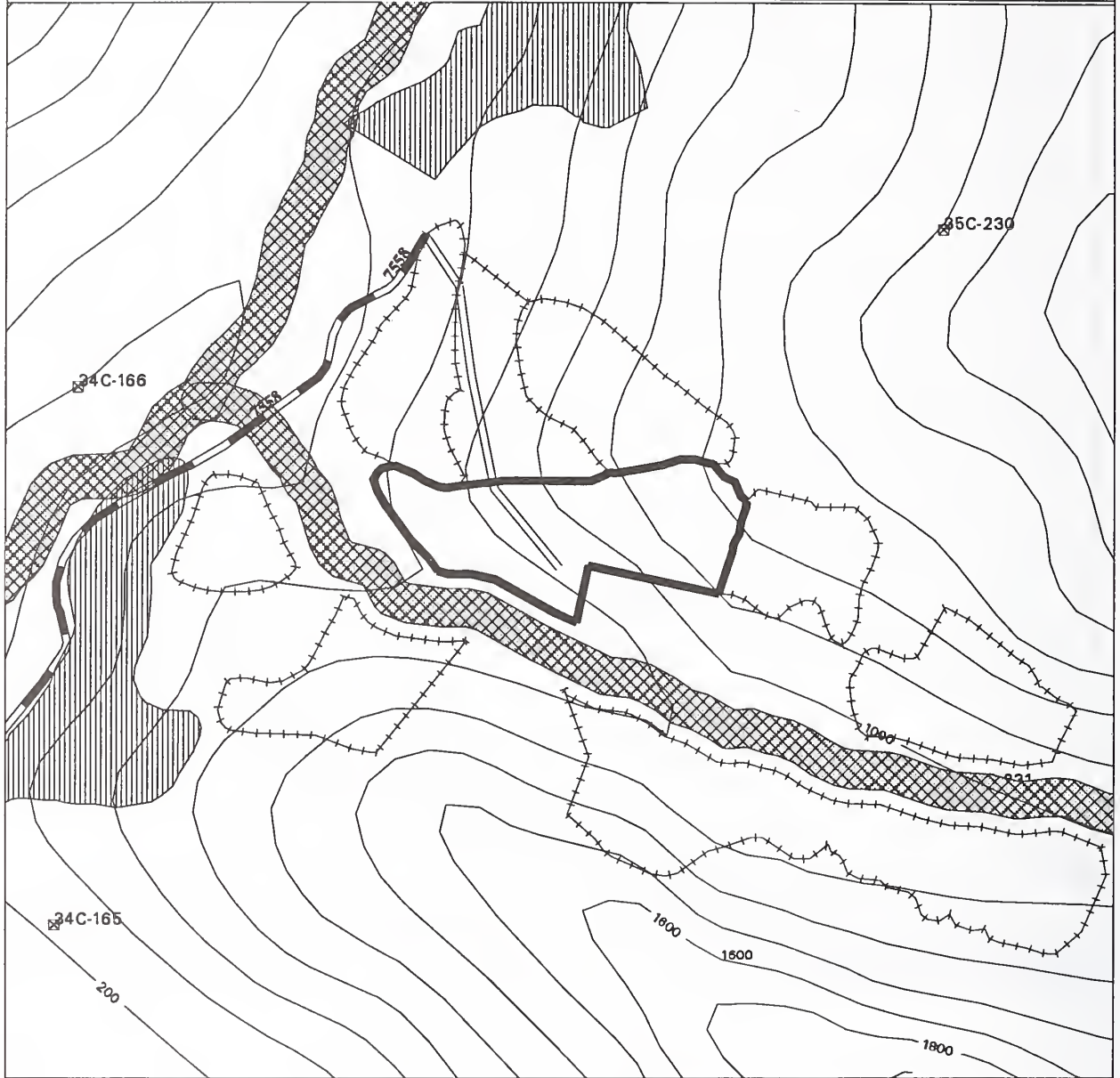
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 9012	VCU: 301
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves. Consider planting cedar.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Live Skyline. Profiles run from Landing 1. Partial suspension attained. 40 foot tail trees needed.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend directional falling away from notches and full suspension if necessary to yard over notches; recommend partial suspension elsewhere to minimize surface disturbance.	
{ FISHERIES } FIELD REVIEWED: NO RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist REMARKS: Mark four large v-notches with orange/white flagging, and protect as per BMP 13.3, category "B."	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 301 UNIT NUMBER: 9021 QUAD(s): SITA5NE/SITA4NW
 ACRES: 29 VOLUME: 759 MBF HARVEST VOLUME: 683 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 90

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



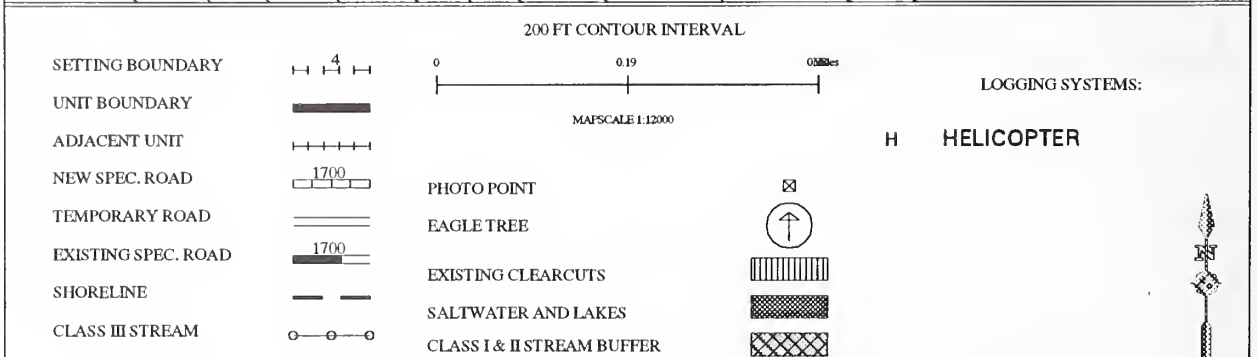
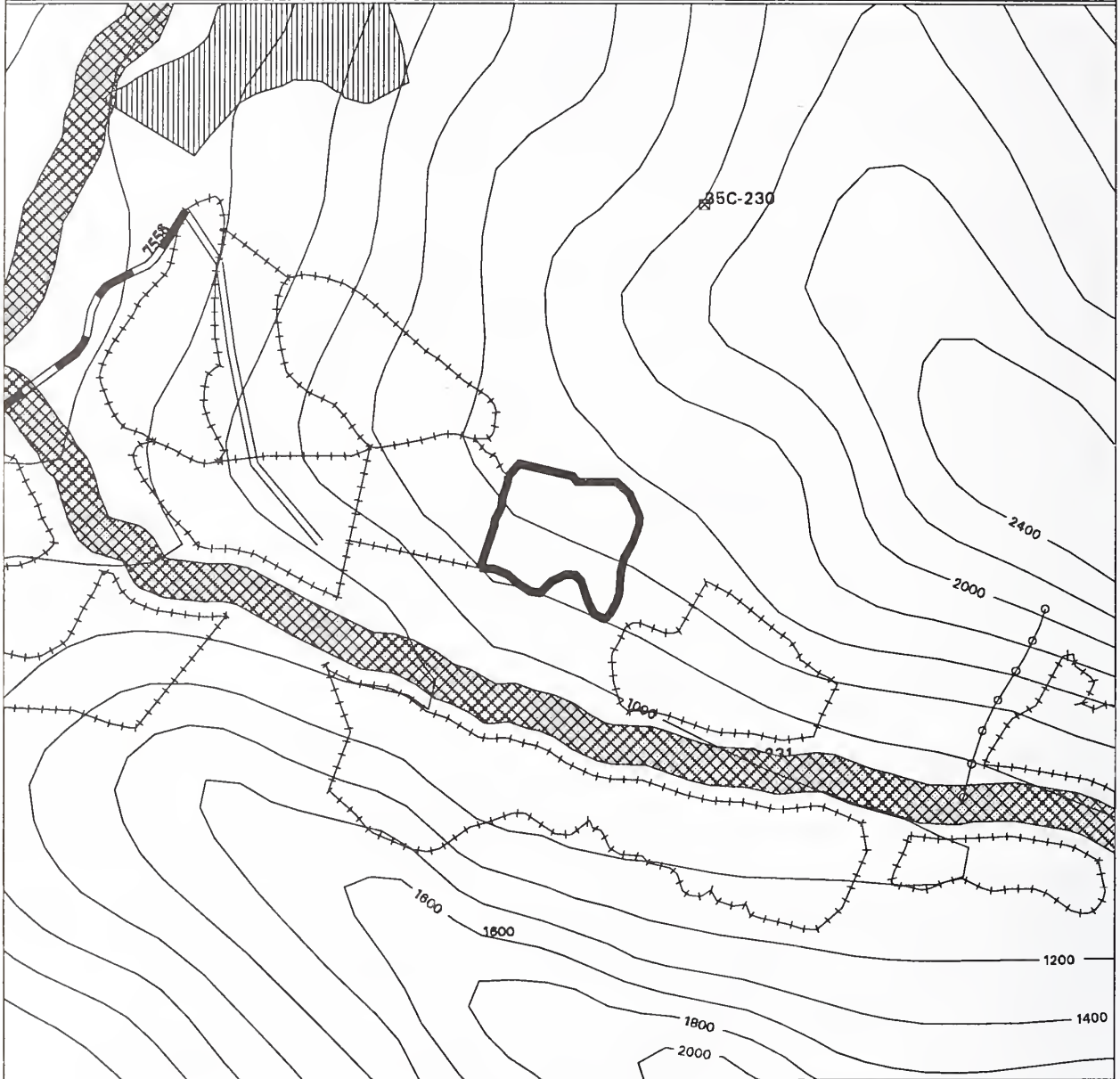
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 9021	VCU: 301
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves. Consider planting cedar. Protect wet soils.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist or Hydrologist REMARKS: Live Skyline on 17 acres, helicopter yarding required for 12 acres on E end. Soils/Hydro concerns. Full suspension or directional falling on notches and old slumps. Minimum 200' horizontal buffer on Lisa Cr.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS:</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Area adjacent to stream has been deleted; remainder of unit contains v-notches, old slumps, and blowdown; recommend directional falling away from notches and full suspension over any notches if necessary to yard across them; also recommend full suspension across old slumps and at least partial suspension over the rest of the unit; helicopter logging will provide full suspension over part of unit.</p>	
<p>{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist REMARKS: Mark v-notch that splits the center of the unit with orange/white flagging, and protect as per BMP 13.3, category "B." Maintain south and SW boundary well above extreme soil mass movement hazard area adjacent to the class II, HC3 channel.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. High habitat value. Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 301 UNIT NUMBER: 9022 QUAD(s): SITA5NE/SITA4NW
 ACRES: 12 VOLUME: 312 MBF HARVEST VOLUME: 281 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 90

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



NORTHWEST BARANOF HARVEST UNIT CARD

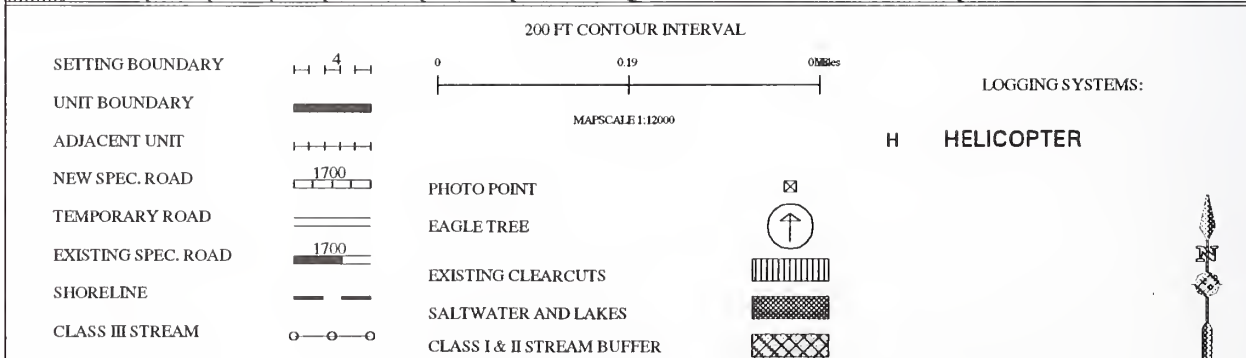
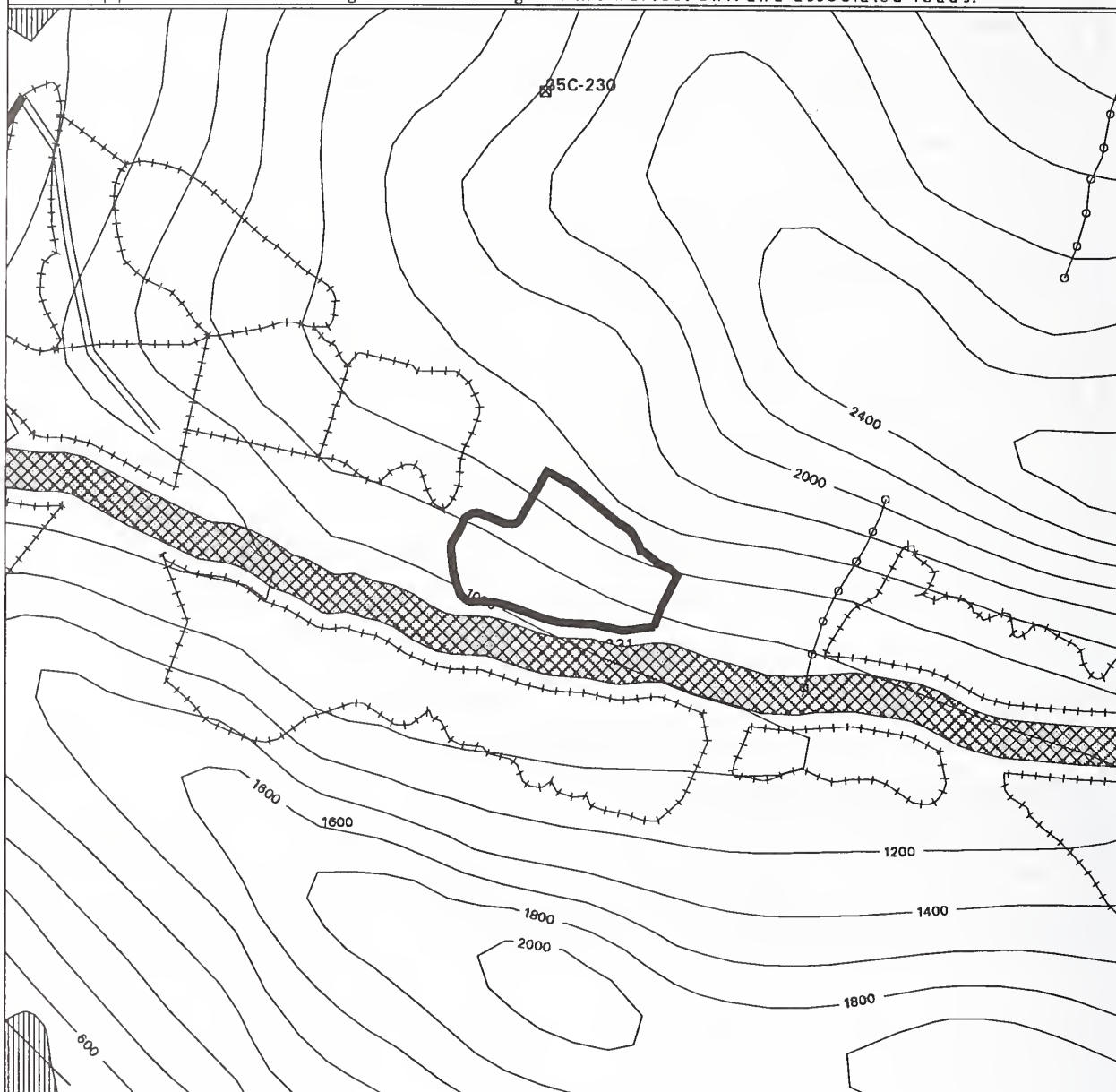
UNIT: 9022	VCU: 301
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves. Upper slopes have wet soils.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit contains some dissection; recommend directional falling away from notches; full suspension will be provided by helicopter logging.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Mark two v-notches in center of unit with orange/white flagging, and protect as per BMP 13.3, category "B."	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD

PLANNED HARVEST UNIT MAP

VCU: 301 UNIT NUMBER: 9023 QUAD(s): SITA4NW
 ACRES: 17 VOLUME: 507 MBF HARVEST VOLUME: 456 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 90

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 9023

VCU: 301

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Western hemlock/blueberry, Silvicultural
 diagnosis for treatment is low canopy retention, Clearcut with reserves.
 Upper unit steep with shallow soils.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Helicopter yarding required. Minimum 200' horizontal buffer on Lisa
 Cr.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Area adjacent to stream has been deleted; small slumps have been
 identified in remainder of unit; helicopter logging will provide full
 suspension over unit.

{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Mark two channels on the east end, and two channels on the west end
 with orange/white flagging, and protect as per BMP 13.3, category "B."
 Protect class II, HC3 channel along south boundary as per BMP 12.6a and 12.6.

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Recommend leaving snags where possible and leaving reserve trees near
 edge of unit

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 301 UNIT NUMBER: 9031 QUAD(s): SITA4NW
 ACRES: 21 VOLUME: 622 MBF HARVEST VOLUME: 435 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 70

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



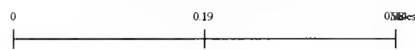
SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL



MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



NORTHWEST BARANOF HARVEST UNIT CARD

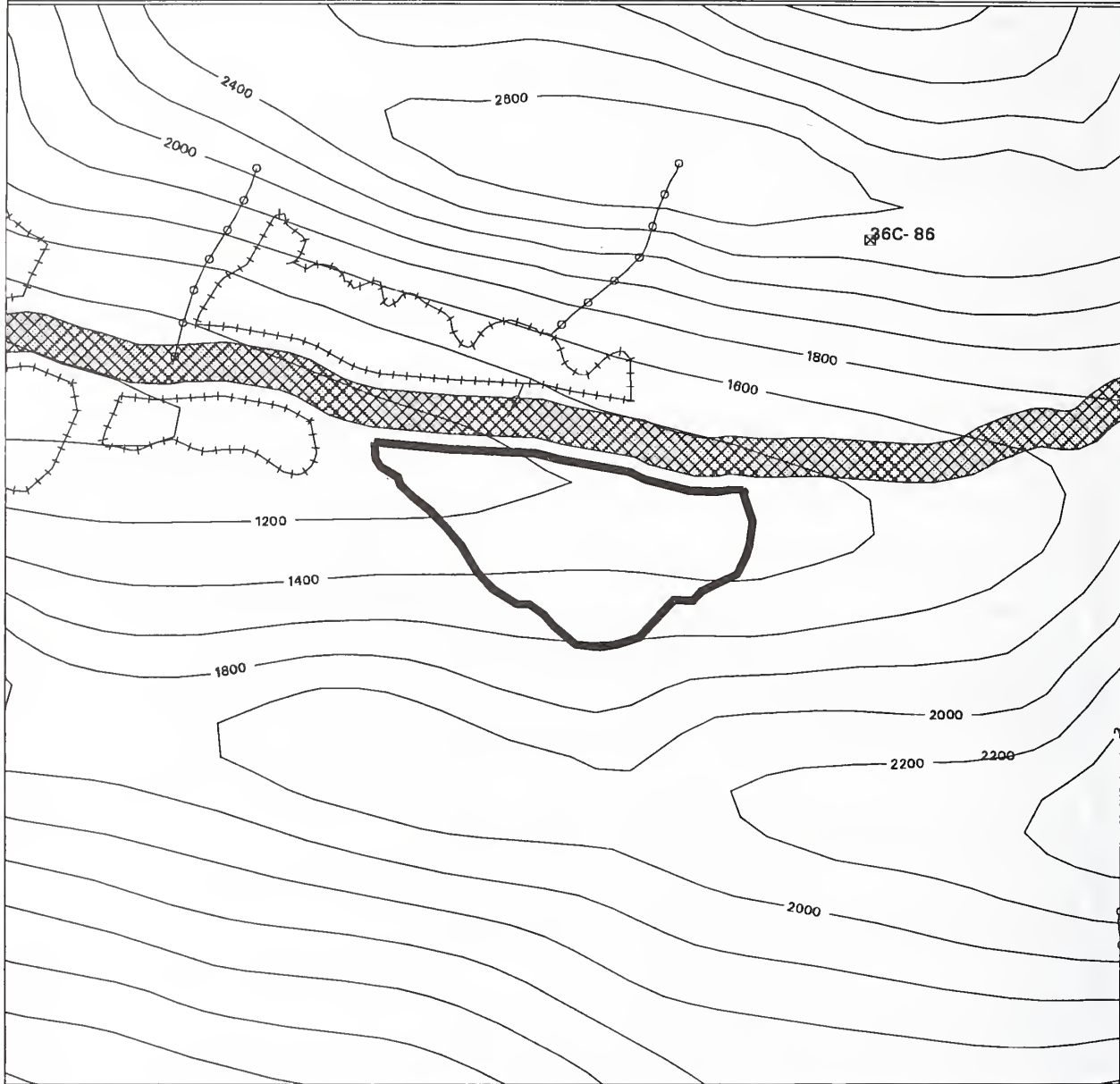
UNIT: 9031	VCU: 301
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is medium canopy retention, Consider overstory removal to protect soils, retain portion of overstory, and release patchy understory.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. Soils concerns. Maintain minimum 200' horizontal buffer on Lisa creek.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Area adjacent to stream has been deleted; some small wet areas and old slumps have been identified in remainder of unit; helicopter logging will provide full suspension over soils.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist or Hydrologist REMARKS: Protect class II, HC3 channel along south boundary as per BMP 12.6a and 12.6. An extended buffer may be necessary due to the steepness of the slope and lack of a filter area adjacent to the stream. Mark the mapped and unmapped HC2 channels on the east end of the unit, and two unmapped channels on the west end of the unit, with orange/white flagging, and protect as per BMP 13.3, category "B."	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High habitat value. Recommend leaving snags where possible	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD









PLANNED HARVEST UNIT MAP

VCU: 301 UNIT NUMBER: 9041 QUAD(s): SITA4NW
 ACRES: 35 VOLUME: 984 MBF HARVEST VOLUME: 836 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 85






Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY 
 UNIT BOUNDARY 
 ADJACENT UNIT 
 NEW SPEC. ROAD 
 TEMPORARY ROAD 
 EXISTING SPEC. ROAD 
 SHORELINE 
 CLASS III STREAM 

0 0.19 0 Miles
 MAP SCALE 1:12000

PHOTO POINT 
 EAGLE TREE 
 EXISTING CLEARCUTS 
 SALTWATER AND LAKES 
 CLASS I & II STREAM BUFFER 

LOGGING SYSTEMS:

H HELICOPTER



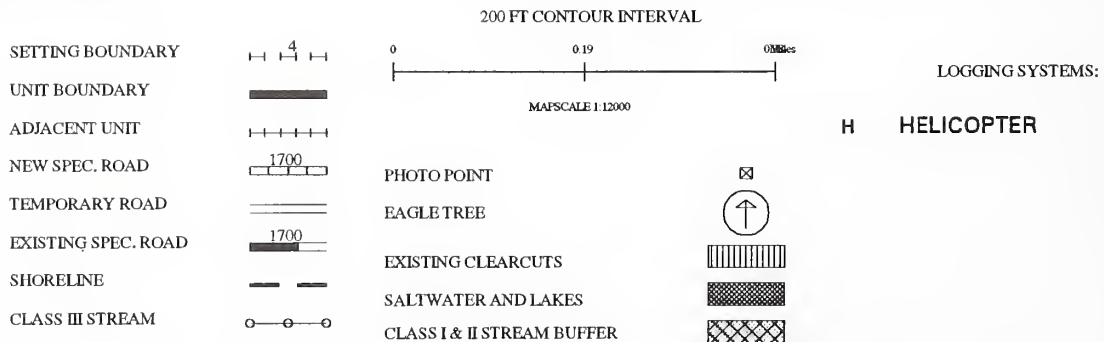
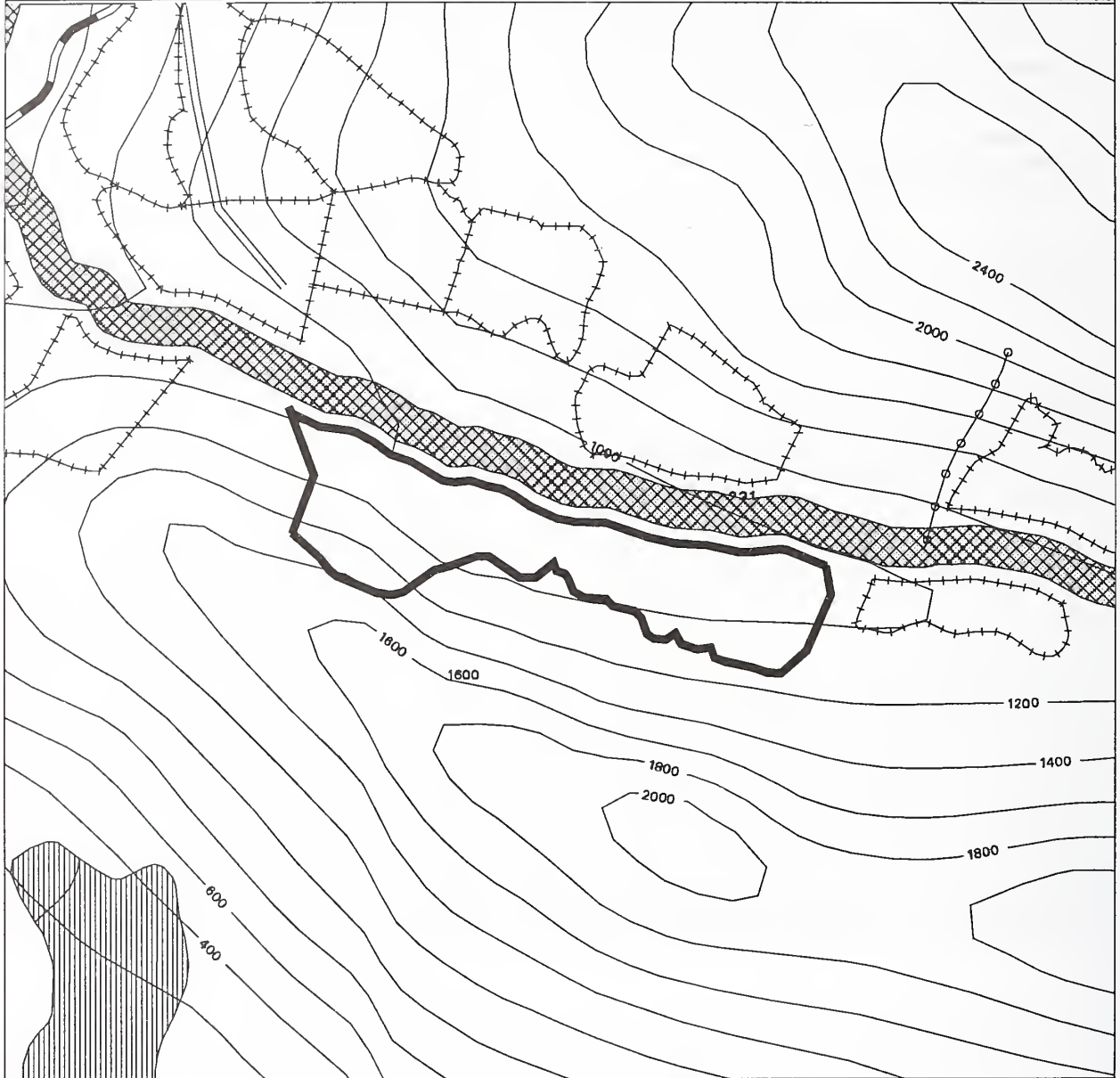
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 9041	VCU: 301
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves. Consider planting cedar.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. Maintain minimum 200' horizontal buffer on Lisa Cr. Soils concerns.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter logging will provide full suspension over steep slopes and unstable areas; recommend directional falling trees away from notches.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: None Provided</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 301 UNIT NUMBER: 9051 QUAD(S): SITA5NE/SITA4NW
 ACRES: 41 VOLUME: 1154 MBF HARVEST VOLUME: 923 MBF
 HARVEST PRESCRIPTION: Overstory Removal PERCENT VOLUME HARVESTED: 80

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



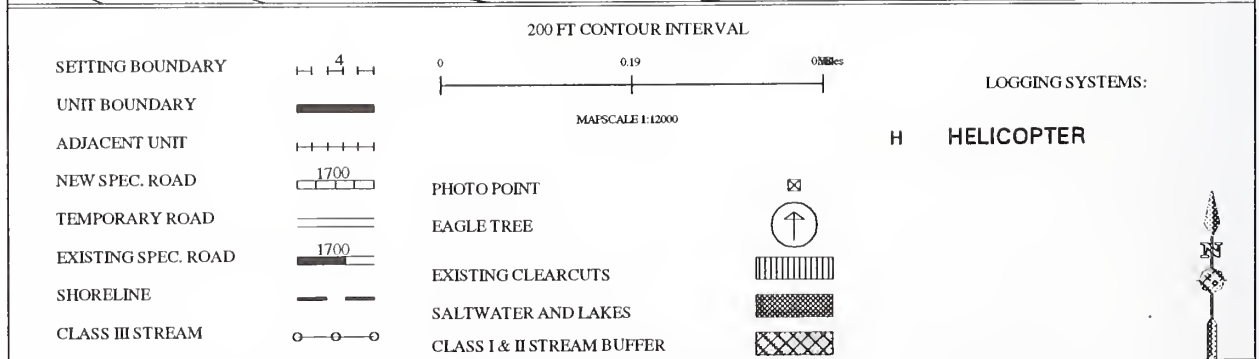
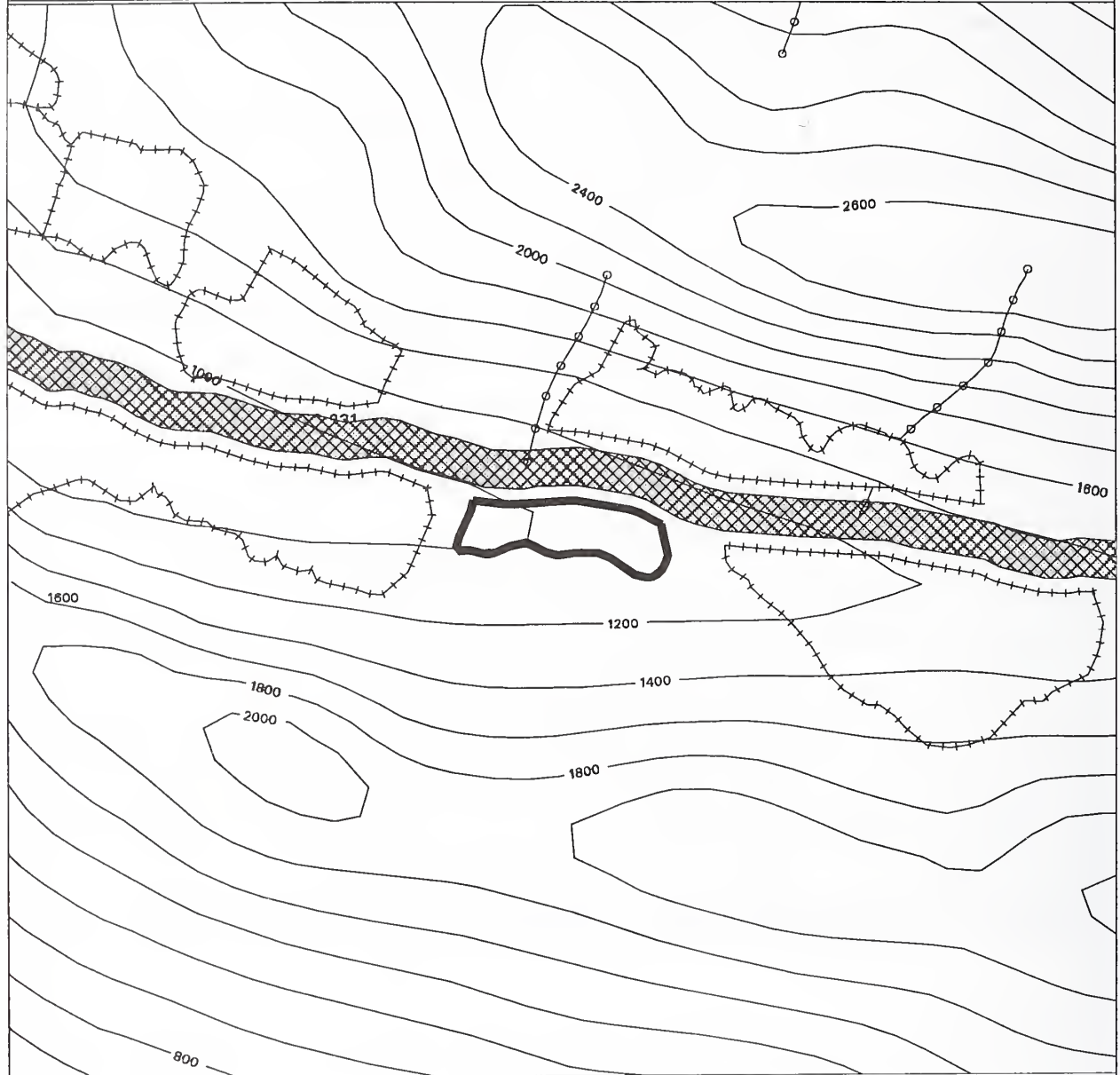
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 9051	VCU: 301
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is medium canopy retention, Consider overstory removal to protect soils and retain portion of overstory.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. Minimum 200' horizontal buffer on Lisa Cr.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Cliffy and most oversteepened areas have been deleted; directionally fall trees away from notches; helicopter logging will provide full suspension over remaining steep slopes, shallow soils, and v-notches.	
{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: None Provided	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 301 UNIT NUMBER: 9052 QUAD(s): SITA4NW
 ACRES: 8 VOLUME: 239 MBF HARVEST VOLUME: 203 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



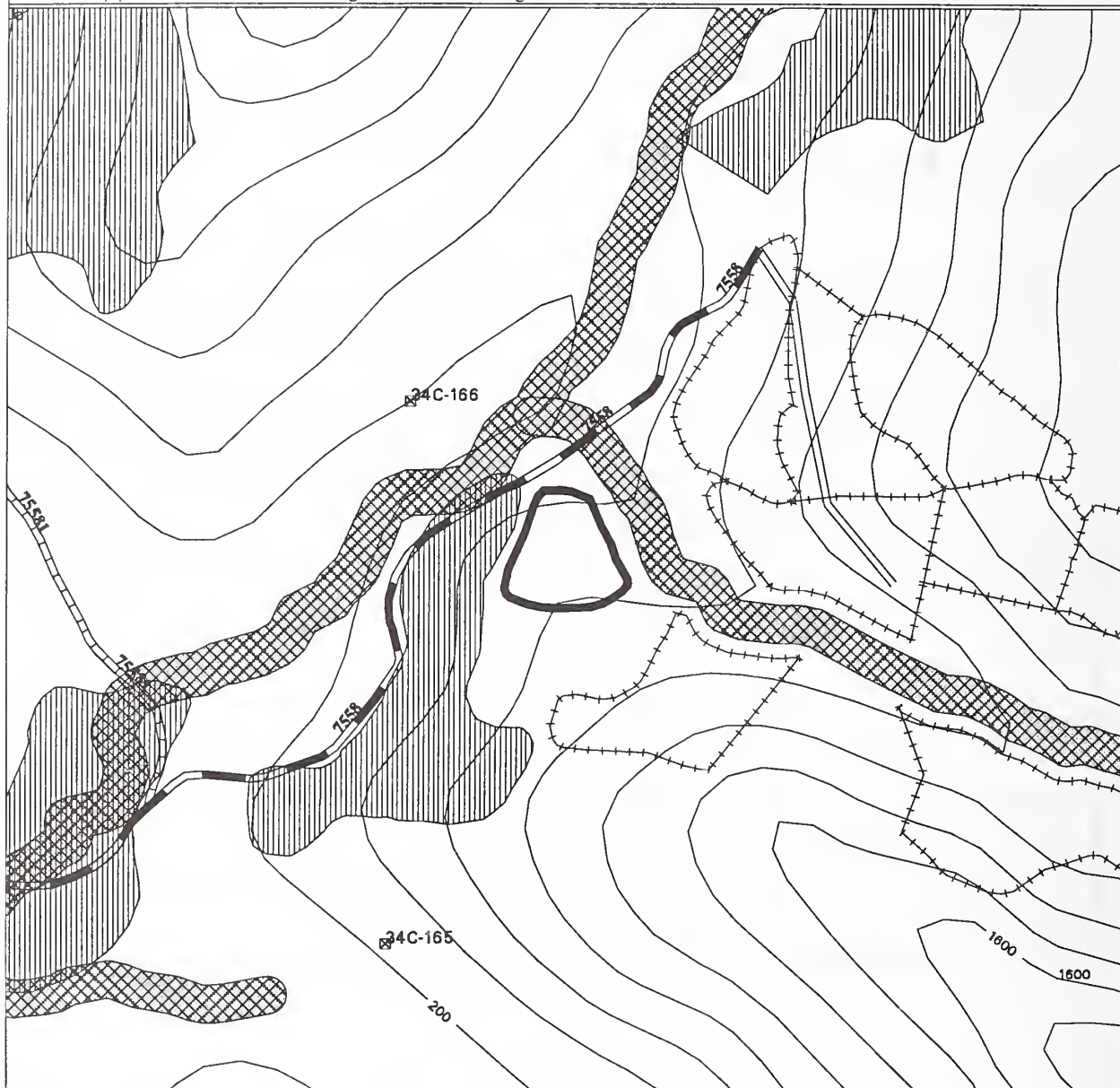
NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 9052	VCU: 301
<p>{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves. Soils wet, ground hummocky.</p>	
<p>{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. Soils concerns. Minimum 200' horizontal buffer on Lisa Cr.</p>	
<p>{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns</p>	
<p>{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Directionally fall trees away from notches; helicopter logging will provide full suspension over steep slopes, shallow soils, and notches.</p>	
<p>{ FISHERIES } FIELD REVIEWED: No RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Protect v-notches within unit as per BMP 13.3, category "B." Protect HC3 channel along north boundary as per BMP 12.6a and 12.6.</p>	
<p>{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks</p>	
<p>{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Recommend leaving snags where possible and leaving reserve trees near edge of unit</p>	
<p>{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective</p>	
<p>{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns</p>	
<p>{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area</p>	

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 301 UNIT NUMBER: 9081 QUAD(s): SITA5NE
 ACRES: 8 VOLUME: 202 MBF HARVEST VOLUME: 172 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 85

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SETTING BOUNDARY



UNIT BOUNDARY



ADJACENT UNIT



NEW SPEC. ROAD



TEMPORARY ROAD



EXISTING SPEC. ROAD



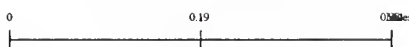
SHORELINE



CLASS III STREAM



200 FT CONTOUR INTERVAL



MAP SCALE 1:12000

LOGGING SYSTEMS:

H HELICOPTER

PHOTO POINT



EAGLE TREE



EXISTING CLEARCUTS



SALTWATER AND LAKES



CLASS I & II STREAM BUFFER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 9061

VCU: 301

{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Plant association is Western hemlock-yellow cedar/blueberry,
 Silvicultural diagnosis for treatment is low canopy retention, Clearcut with
 reserves. Consider planting cedar.

{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Helicopter yarding required. Soils concerns. Minimum 200' horizontal
 buffer on Lisa Cr.

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No Concerns

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Unit is dissected, contains old slumps, and has rocky soils;
 recommend directional falling away from notches; helicopter logging will
 provide full suspension over unit.

{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Put east boundary well back from extreme hazard soils along the HC3
 channel.

{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: See Fisheries For Remarks

{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: High subsistence value. High habitat value. Recommend leaving snags
 where possible and leaving reserve trees near edge of unit

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

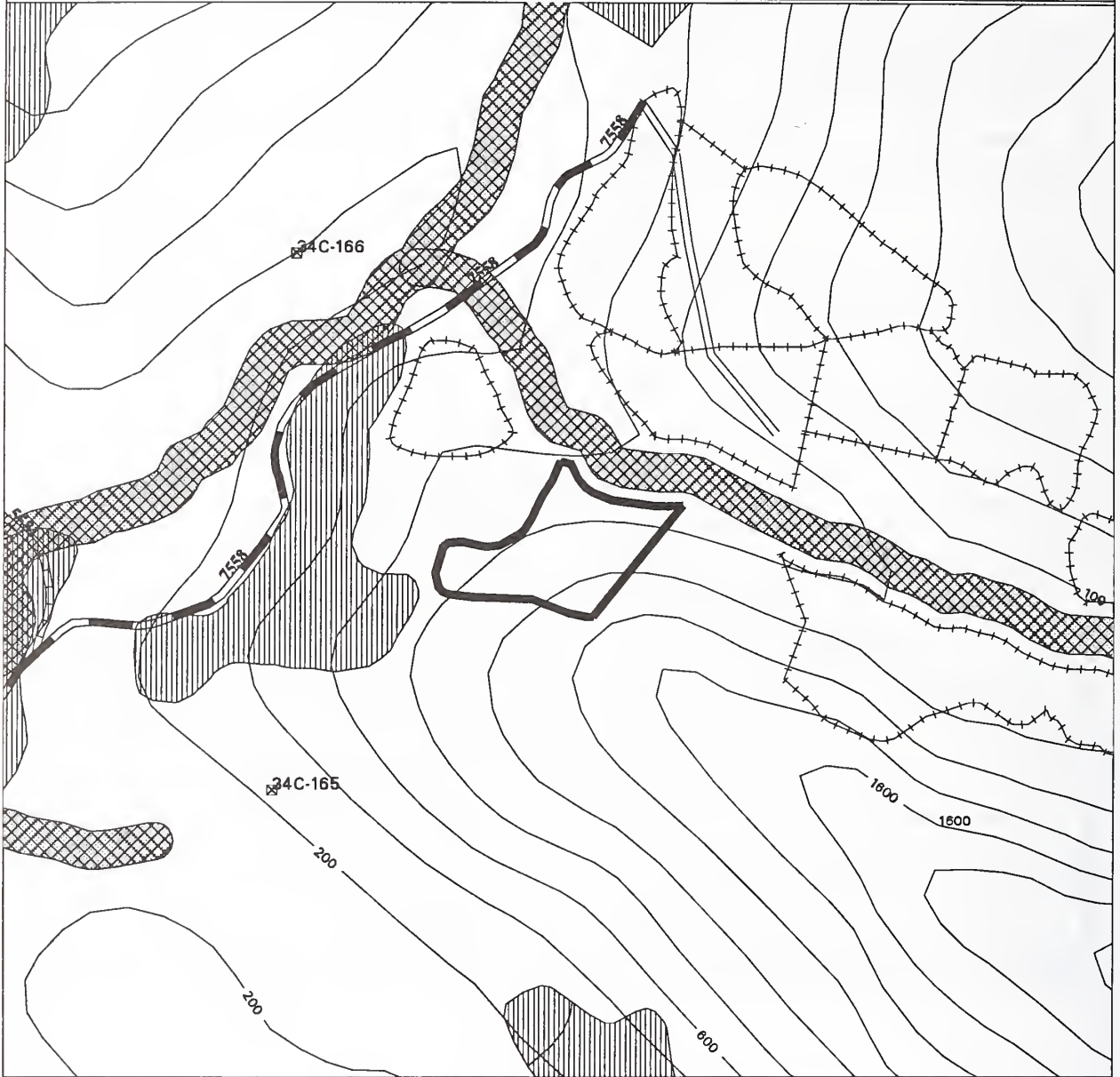
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ Heritage } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Low probability area

NORTHWEST BARANOF PROJECT HARVEST UNIT CARD PLANNED HARVEST UNIT MAP

VCU: 301 UNIT NUMBER: 9062 QUAD(s): SITA5NE
 ACRES: 14 VOLUME: 353 MBF HARVEST VOLUME: 336 MBF
 HARVEST PRESCRIPTION: Clear Cut with Reserves PERCENT VOLUME HARVESTED: 95

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



200 FT CONTOUR INTERVAL

SETTING BOUNDARY	
UNIT BOUNDARY	
ADJACENT UNIT	
NEW SPEC. ROAD	
TEMPORARY ROAD	
EXISTING SPEC. ROAD	
SHORELINE	
CLASS III STREAM	

0 0.19 0.38 Miles
 MAP SCALE 1:12000

PHOTO POINT	
EAGLE TREE	
EXISTING CLEARCUTS	
SALTWATER AND LAKES	
CLASS I & II STREAM BUFFER	

LOGGING SYSTEMS:

H HELICOPTER



NORTHWEST BARANOF HARVEST UNIT CARD

UNIT: 9062	VCU: 301
{ SILVICULTURE } FIELD REVIEWED: Yes RECOMMENDED BY: B.Dougan SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Plant association is Western hemlock-yellow cedar/blueberry, Silvicultural diagnosis for treatment is low canopy retention, Clearcut with reserves. Consider planting cedar.	
{ TIMBER } FIELD REVIEWED: Yes RECOMMENDED BY: L.Mork SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Helicopter yarding required. Soils concerns. Minimum 200' horizontal buffer on Lisa Cr.	
{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns	
{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Unit is dissected, contains old slumps; recommend directional falling away from notches; helicopter logging will provide full suspension over unit.	
{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Put east boundary well back from extreme hazard soils along the HC3 channel.	
{ HYDROLOGY } FIELD REVIEWED: No RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: See Fisheries For Remarks	
{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: High subsistence value. High habitat value. Recommend leaving snags where possible and leaving reserve trees near edge of unit	
{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective	
{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns	
{ Heritage } FIELD REVIEWED: No RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area	



Appendix O

Road Cards

NORTHWEST BARANOF PROJECT ROAD CARD

PLANNED ROAD ROUTE MAP

ROUTE NUMBER: 7574

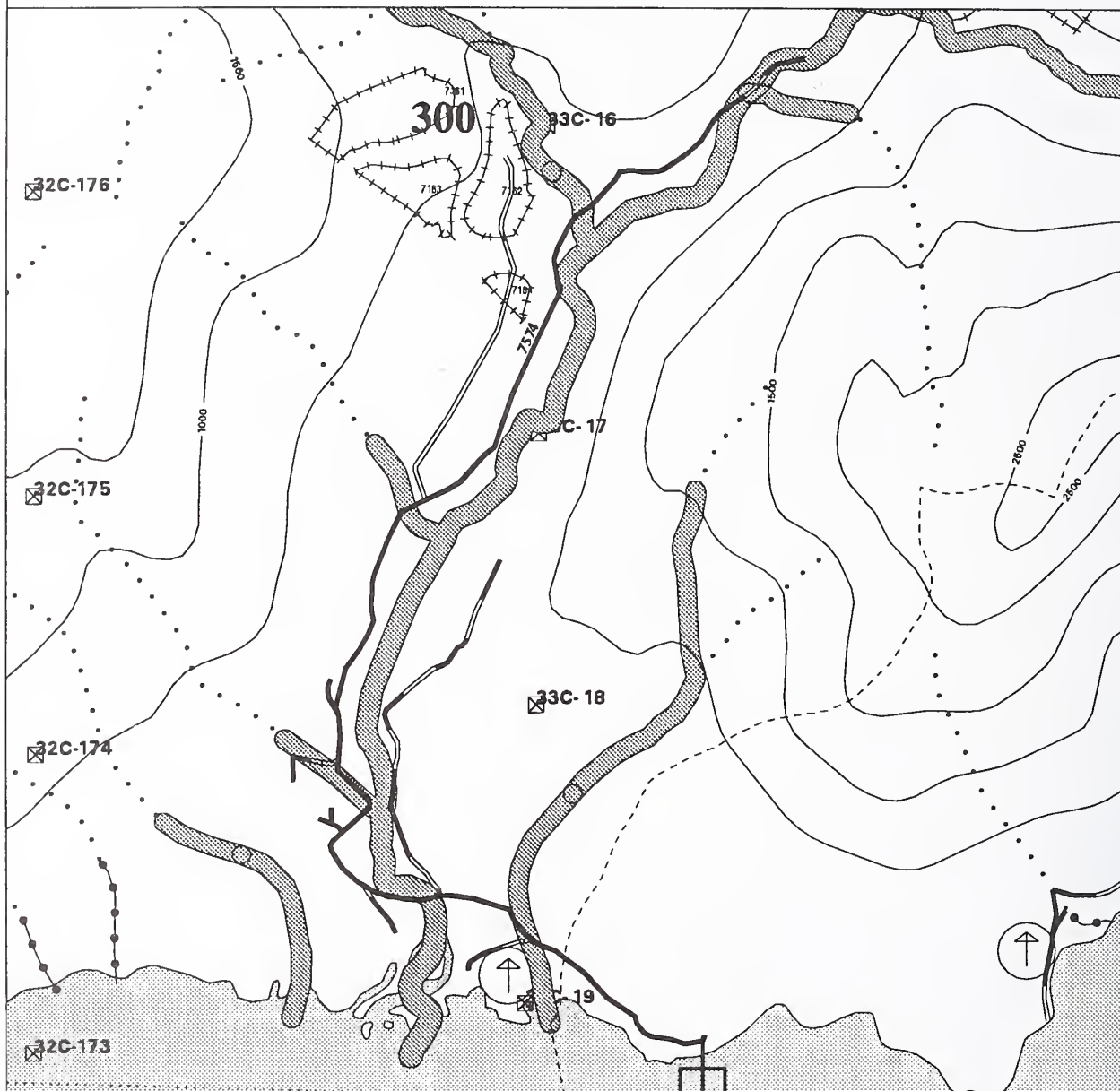
QUAD (S) : SITB5SE, SITA5NE

Miles of existing road 2.9

VCU (S) : 300, 299

Miles of proposed road 0.4

Total miles: 3.3



LEGEND:

UNIT BOUNDARY

SUBJECT ROAD 7574

EXISTING ROAD

PLANNED ROAD

TEMPORARY ROAD

LOG TRANSFER FACILITY

500 FT CONTOUR INTERVAL

0 0.38 0.75 Miles

Map Scale 1:23833

CLASS III STREAM

CLASS II-NO BUFFER

CLASS I & II STREAM BUFFER

SHORELINE

PHOTO POINT

EAGLE TREE

VCU line

QUAD line

NORTHWEST BARANOF HARVEST ROAD CARD

VCU: 299/3000 ROAD NUMBER: 7574	
{ LANDS }	FIELD REVIEWED: No RECOMMENDED BY: J.Morrell SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns
{ ROADS }	FIELD REVIEWED: Yes RECOMMENDED BY: T.Allio SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist or Hydrologist REMARKS: Reconstruction of route will require the crossing of Class I streams. Recommend a hydrological analysis following road location to determine bridge or drainage structure specifications. Provide for fish passage. Follow BMP guidelines for excavation, material placement and instream operations (timing) in fish streams. Bridges will be removed after harvest. Approximately 2000 feet of new construction will reduce the number of Class I stream crossings by two and move the road away from the stream giving a larger buffer on the stream.
{ SOILS }	FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker SPECIALISTS NEEDED DURING LAYOUT: Hydrologist or Fisheries Biologist REMARKS: Segment 821.10 has fish/hydro/riparian concerns; recommend a Hydrologist or Fisheries Biologist be notified to ensure this area has received adequate protection. This route is mapped as having a low to moderate mass-movement hazard.
{ FISHERIES }	FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist REMARKS: There are several Class I fish streams between LTF and main Noxon Creek crossing, including two large crossings that will require a bridge or large squash pipe. Biologists should be consulted when locating rock pits or sort/storage yards to insure compliance with TTRA fish buffers (BMP 12.6a). Preferred site to cross main channel is at a previously used crossing several hundred yards upstream from estuary. A cribbed center support with two long spans to cover the entire active channel, or one very long span, will be needed to minimize scour disturbance to pink and chum salmon spawning habitat. Flow through a backwater channel on the west bank, which provides flood refuge for rearing fish, should be maintained with a suitably sized culvert (BMP 14.17). Special construction measures will be needed for control of in-channel operations and for any diversions of flows around the construction sites (BMP 14.14., 14.15). Fish timing windows will apply for crossings throughout this drainage (BMP 14.6). There are three other large crossings with Class I fish habitat, and four smaller streams where fish passage should be maintained. Gravel borrow pits were developed during the original road construction, and suitable sites may again be developed as per objectives of BMP 18.2. During reconstruction, care should be taken to prevent materials from being sidecast into live streams that parallel the road (BMP 14.10, 14.12, 14.19).
{ HYDROLOGY }	FIELD REVIEWED: Yes RECOMMENDED BY: D.Kelliher SPECIALISTS NEEDED DURING LAYOUT: Hydrologist or Fisheries Biologist REMARKS: Two alluvial fan crossings, parallels Class I FP4, BMPs 12.4, 12.6 14.17.
{ WILDLIFE }	FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann SPECIALISTS NEEDED DURING LAYOUT: Wildlife Biologist REMARKS: Contains a eagle nest, number 12325072 within the required 330-foot eagle nest tree buffer. Road reconstruction will need a variance from the USFWS. Recommend road closure to reduce easy access for hunters to mountain goat habitat. Recommend monitoring harvest of mountain goats during the time the road is open.
{ VISUALS }	FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Within visual quality objective
{ RECREATION }	FIELD REVIEWED: No RECOMMENDED BY: B.Flynn SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns
{ HERITAGE }	FIELD REVIEWED: Yes RECOMMENDED BY: R.Myron SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Archeological survey completed for all portions of Road 7574 under 100 feet in elevation and for the proposed LTF site at the road terminus. No sites identified. Further section 106 review required for on-shore developments at the distances greater than 100m from identified LTF and HILT locations; this includes any facilities, shore ties, or camps.

NORTHWEST BARANOF PROJECT ROAD CARD

PLANNED ROAD ROUTE MAP

ROUTE NUMBER: 7525

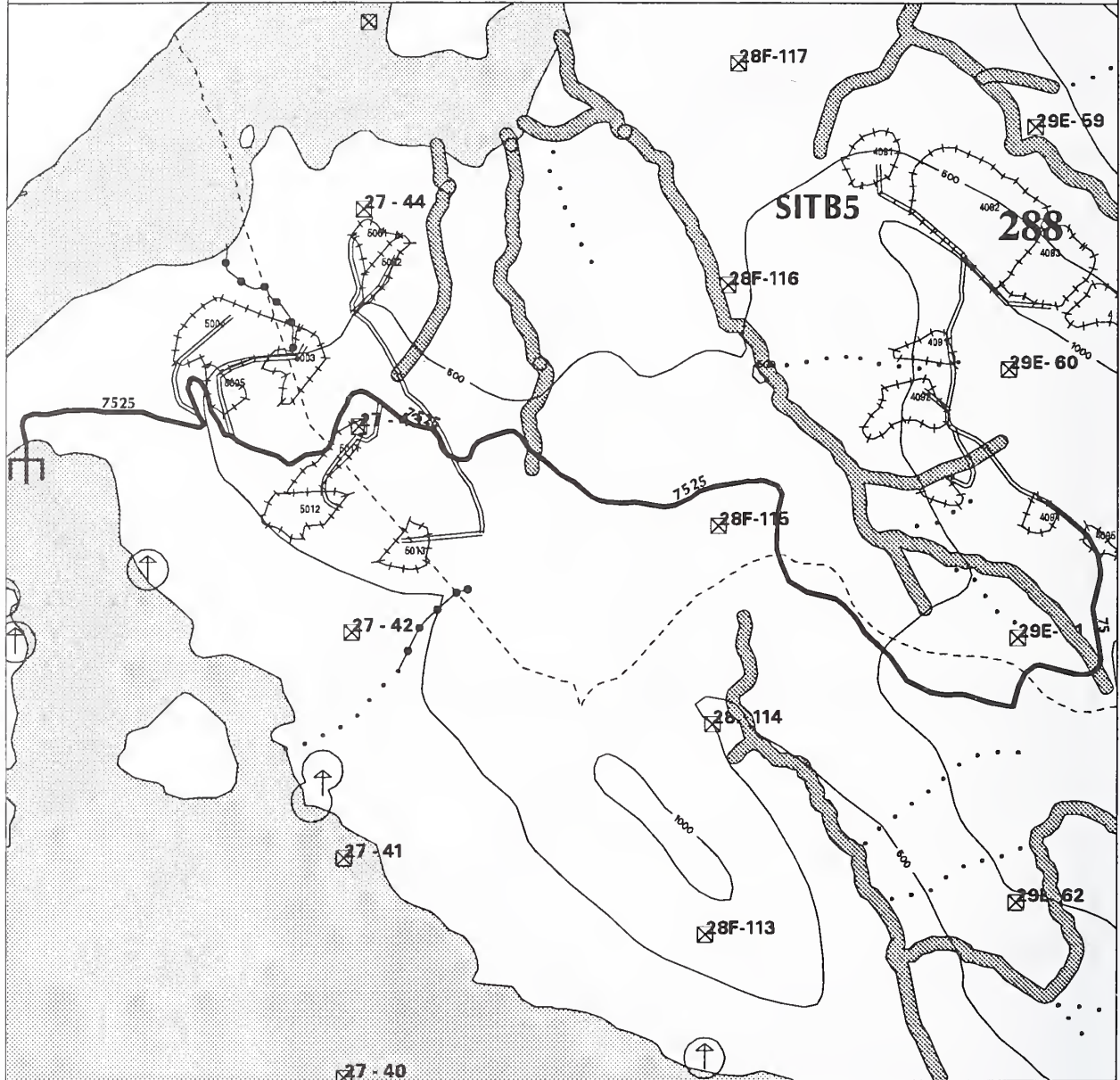
QUAD (S) : SITB5NW

Miles of existing road 0

VCU (S) : 288, 287

Miles of proposed road 5.1

Total miles: 5.1



LEGEND:

UNIT BOUNDARY

SUBJECT ROAD 7525

EXISTING ROAD

PLANNED ROAD

TEMPORARY ROAD

LOG TRANSFER FACILITY

500 FT CONTOUR INTERVAL

0 0.52 1.04 Miles

Map Scale 1:33000

CLASS III STREAM

CLASS II-NO BUFFER

CLASS I & II STREAM BUFFER

SHORELINE

PHOTO POINT

EAGLE TREE

VCU line

QUAD line

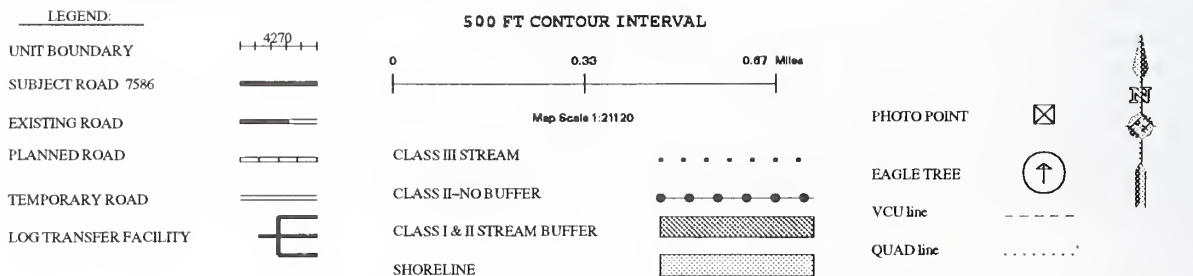
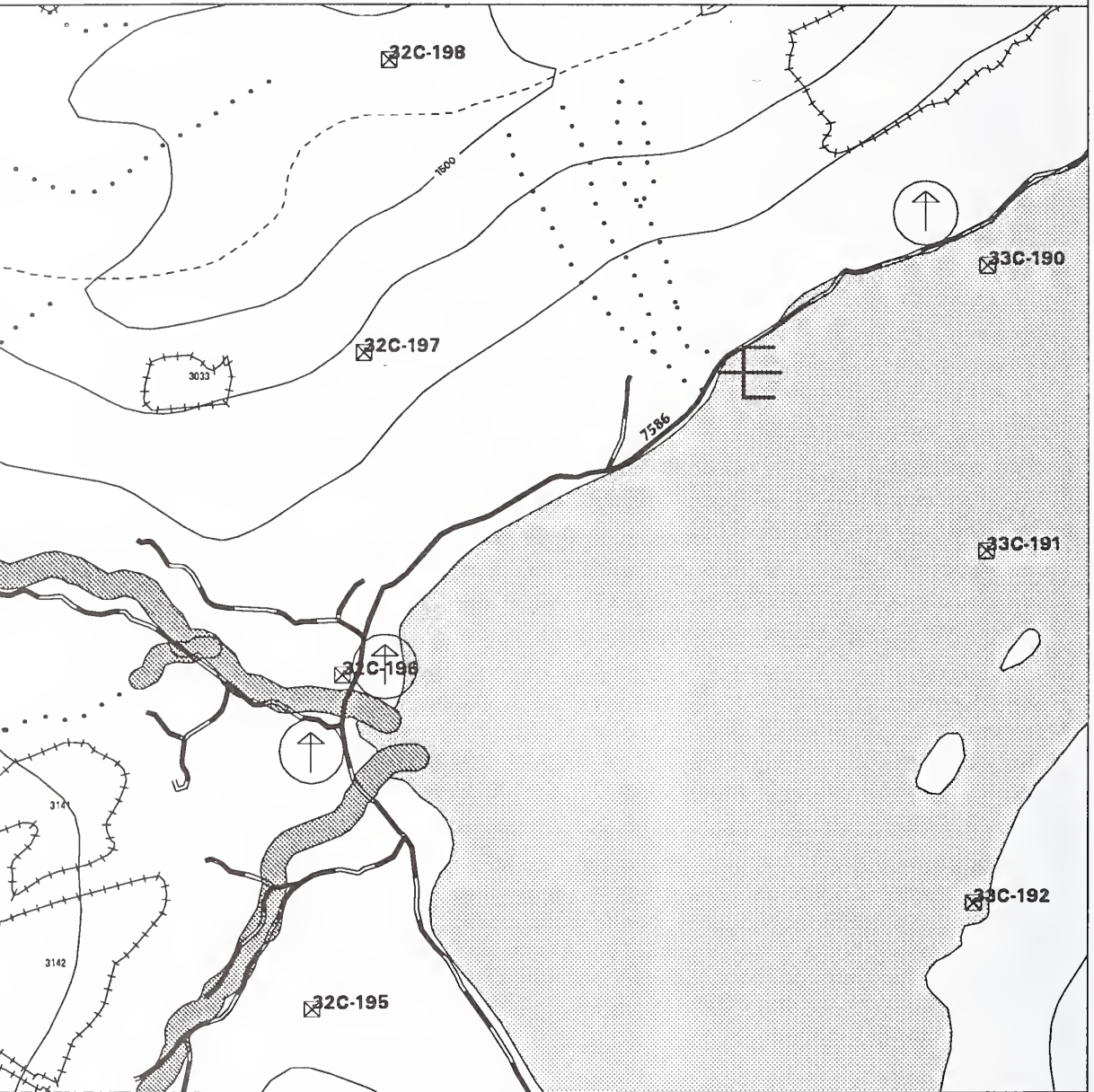
NORTHWEST BARANOF HARVEST ROAD CARD

VCU: 287/288 ROAD NUMBER: 7525		
{ LANDS }	FIELD REVIEWED: No	RECOMMENDED BY: J.Morrell
SPECIALISTS NEEDED DURING LAYOUT: None needed		
REMARKS: None provided		
{ ROADS }	FIELD REVIEWED: No	RECOMMENDED BY: T.Allio
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Boulders and oversteepened slope encountered on a short segment of this route. Parts of this route may have some visual concerns; efforts should be taken during layout to avoid visual impacts.		
{ SOILS }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Huecker
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Segments 495.20 and 496.01 cross oversteepened slopes and wet soils; some full bench and endhaul construction will be required to protect these areas. Part of segment 495.19 is mapped as having high mass movement hazard; the rest of this route mapped as having a low to moderate hazard.		
{ FISHERIES }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Lorenz
SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist		
REMARKS: A bridge is recommended to provide fish passage at a Class I fish stream that flows out of a lake approximately 0.3 mile east of Unit 5013 (BMP 14.6, 14.7). LTF design and log storage operations must meet objectives of BMPs 14.25, 14.26 and 14.27.		
{ HYDROLOGY }	FIELD REVIEWED: Yes	RECOMMENDED BY: D.Kelliher
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: None Provided		
{ WILDLIFE }	FIELD REVIEWED: No	RECOMMENDED BY: C.Hartmann
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ VISUALS }	FIELD REVIEWED: Yes	RECOMMENDED BY: E.Ouderkirk
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Locate road to minimize visual impacts from key viewpoints. Locate and design rockpits to minimize visual impacts. Fully rehabilitate rock pit area. Retain screen trees, Apply grass seed and fertilizer to all cut and fill banks.		
{ RECREATION }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Flynn
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: In LTF design and construction allow for easy postharvest loading and unloading of ORVs from a skiff. Allow for good skiff anchorage. At closest practical point to lake, allow turnout width for postharvest ORV parking. Provide easy foot access off road prism at lake while preventing ORVs from leaving road surface.		
{ HERITAGE }	FIELD REVIEWED: Yes	RECOMMENDED BY: R.Myron
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Archeological survey completed for all portions of Road 7525 under 100 feet in elevation and for the proposed LTF site at the terminus of Road 7525. No sites identified. Further Section 106 review required for on-shore developments at distances greater than 100m from identified LTF and HILT locations; this includes any facilities, shore ties, or camps.		

NORTHWEST BARANOF PROJECT ROAD CARD

PLANNED ROAD ROUTE MAP

ROUTE NUMBER: <u>7586</u>	QUAD (S) : <u>SITB5NE</u>
Miles of existing road <u>1.1</u>	VCU (S) : <u>292</u>
Miles of proposed road <u>0</u>	
Total miles: <u>1.1</u>	



NORTHWEST BARANOF HARVEST ROAD CARD

VCU: 2920 ROAD NUMBER: 7586

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: No Concerns

{ ROADS } FIELD REVIEWED: Yes RECOMMENDED BY: T.Allio
SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist and Hydrologist
REMARKS: This route is to be reconstructed from the LTF to rd 7587. This route will require riprap on the water side. Recommend a hydrological analysis following road location to determine bridge or drainage structure specifications. Provide for fish passage. Follow BMP guidelines for excavation, material placement and instream operations (timing) in fish streams. An 80-foot bridge may be required to cross Class I stream.

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: No concerns

{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz
SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist
REMARKS: Adams Creek is crossed near the top of the intertidal zone. This is pink and chum salmon spawning habitat, so bridge footings should be placed outside the active channel, and timing restrictions will apply to protect fish (BMP 14.6, 14.14, 14.17). Fish passage should be provided at an overflow channel on the north side of the Adams Creek floodplain and at three small Class I fish streams between Adams Creek and the proposed LTF. Drainage outlets along the exposed shoreline should have riprap as needed to prevent erosion of the road prism. An apron at the outlet will also help to maintain a water-holding pool at low tide amidst the porous beach gravels (BMP 14.9).

{ HYDROLOGY } FIELD REVIEWED: Yes RECOMMENDED BY: D.Kelliher
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: No concerns, one Class I crossing, BMP 14.17, 12.6, 12.4 apply.

{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann
SPECIALISTS NEEDED DURING LAYOUT: Wildlife Biologist
REMARKS: Contains 2 eagle nests, numbers 12325013 and 12325091, within the required 330-foot eagle nest tree buffer. Road reconstruction will need variances from the USFWS.

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: Within visual quality objective

{ RECREATION } FIELD REVIEWED: Yes RECOMMENDED BY: B.Flynn
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: In LTF design and construction allow for easy postharvest loading and unloading of ORVs from a skiff. Allow for good skiff anchorage.

{ HERITAGE } FIELD REVIEWED: Yes RECOMMENDED BY: R.Myron
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: Archeological survey completed for all portions of Road 7586 under 100 feet in elevation and for the proposed LTF site at the terminus of road 7586. No sites identified. Further Section 106 review required for on-shore developments at distances greater than 100m from identified LTF and HILT locations; this includes any facilities, shore ties, or camps.

NORTHWEST BARANOF PROJECT ROAD CARD

PLANNED ROAD ROUTE MAP

ROUTE NUMBER: 7587

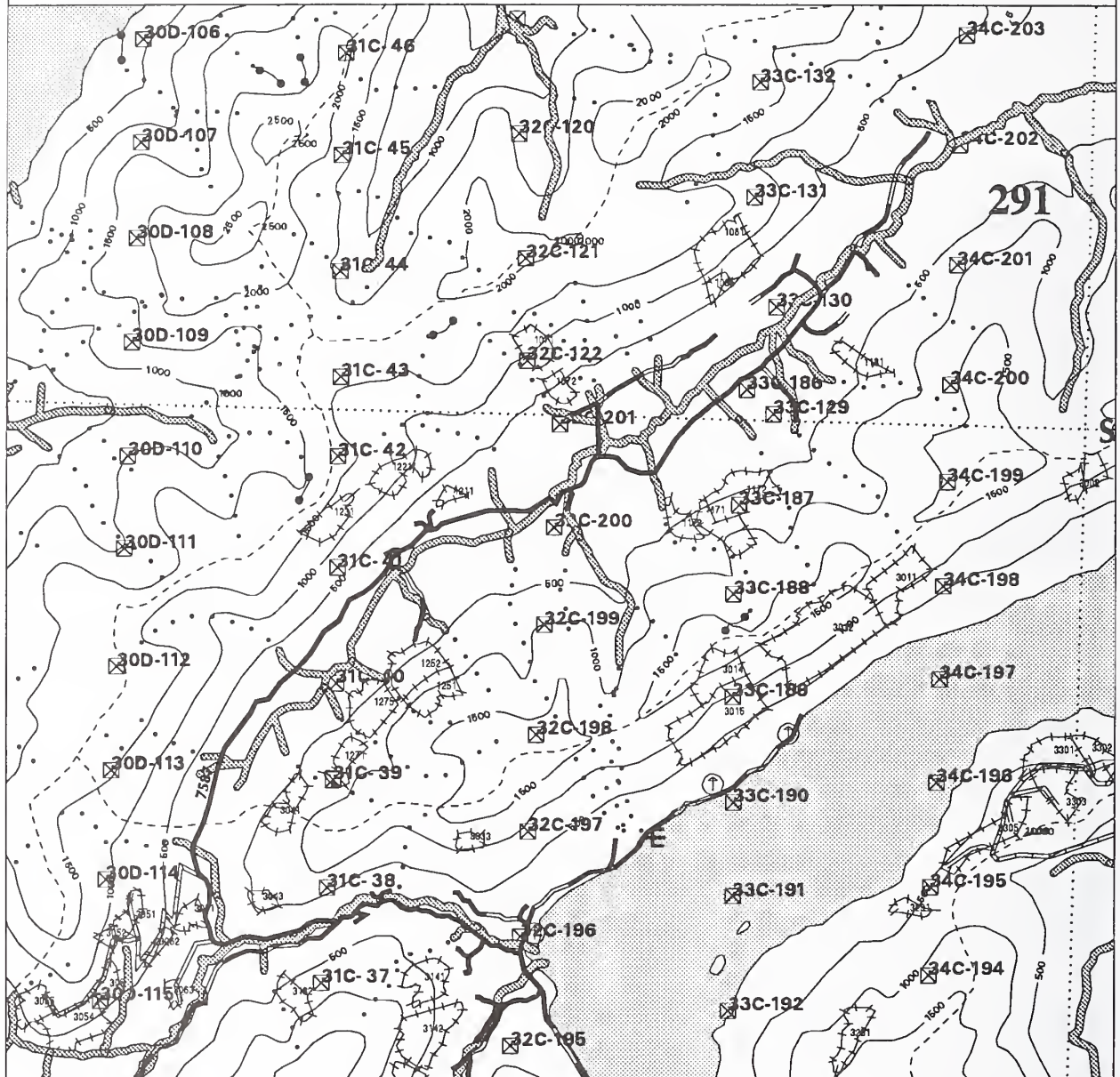
QUAD (S) : SITC5SE, SITB5NE

Miles of existing road 9.3

VCU (S) : 290, 289, 291, 292, 293

Miles of proposed road 0

Total miles: 9.3



LEGEND:

UNIT BOUNDARY

SUBJECT ROAD 7587

EXISTING ROAD

PLANNED ROAD

TEMPORARY ROAD

LOG TRANSFER FACILITY

500 FT CONTOUR INTERVAL

0 1 2 Miles

Map Scale 1:63360

CLASS III STREAM

CLASS II-NO BUFFER

CLASS I & II STREAM BUFFER

SHORELINE

PHOTO POINT

EAGLE TREE

VCU line

QUAD line

NORTHWEST BARANOF HARVEST ROAD CARD

VCU: 291/292 ROAD NUMBER: 7587

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: No Concerns

{ ROADS } FIELD REVIEWED: Yes RECOMMENDED BY: T.Allio
SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist and Hydrologist
REMARKS: Reconstruction of an existing road. Road crosses over Class I streams. Recommend a hydrological analysis following road location to determine bridge or drainage structure specifications. Provide for fish passage. Follow BMP guidelines for excavation, material placement and instream operations (timing) in fish streams.

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
SPECIALISTS NEEDED DURING LAYOUT: None
REMARKS: No Concerns

{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz
SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist
REMARKS: This existing road has 36 stream crossings that require fish passage, including 13 large channels where bridges are recommended to pass floods and/or to provide fish passage (BMP 14.6, 14.17). Fish timing restrictions will apply (BMP 14.14, State Fish and Game consultation needed). Gravel borrow ponds were used during original road construction, and suitable sites may again be developed as per the objectives of BMP 18.2. Near the junction of Road 75873, there are four bridge crossings over incised tributaries to the north fork of Adams Creek. Erosion control measures will be needed for the equipment crossings to protect stream banks (BMP 14.5, 14.11, 14.14). Small portions of Road 7587 adjacent to the main Adams Creek channel have washed away. The road should be realigned with an objective of protecting as much of the TTRA buffer as possible (BMP 12.6a). During reconstruction, care should be taken to prevent materials from being sidcast into live streams that parallel the road (BMP 14.10, 14.12, 14.19). Fisheries Biologists should be involved in the road design phase (streamcourse protection plans).

{ HYDROLOGY } FIELD REVIEWED: Yes RECOMMENDED BY: D.Kelliher
SPECIALISTS NEEDED DURING LAYOUT: Hydrologist or Fisheries Biologist
REMARKS: Numerous alluvial fan and floodplain channel crossings; BMP's 12.4, 12.6 and 14.17 apply. Three Class I stream crossings.

{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
SPECIALISTS NEEDED DURING LAYOUT: Wildlife Biologist
REMARKS: Eagle nest tree #12325091 is within 330 feet of the road and a variance from the USFWS will be required prior to this road being reconstructed. See road map 7586 for nest tree location.

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Onderkirk
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: Within visual quality objective

{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: Yes RECOMMENDED BY: R.Myron
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: Archeological survey completed for all portions of Road 7587 under 100 feet in elevation. No sites identified.

NORTHWEST BARANOF PROJECT ROAD CARD

PLANNED ROAD ROUTE MAP

ROUTE NUMBER: 75873

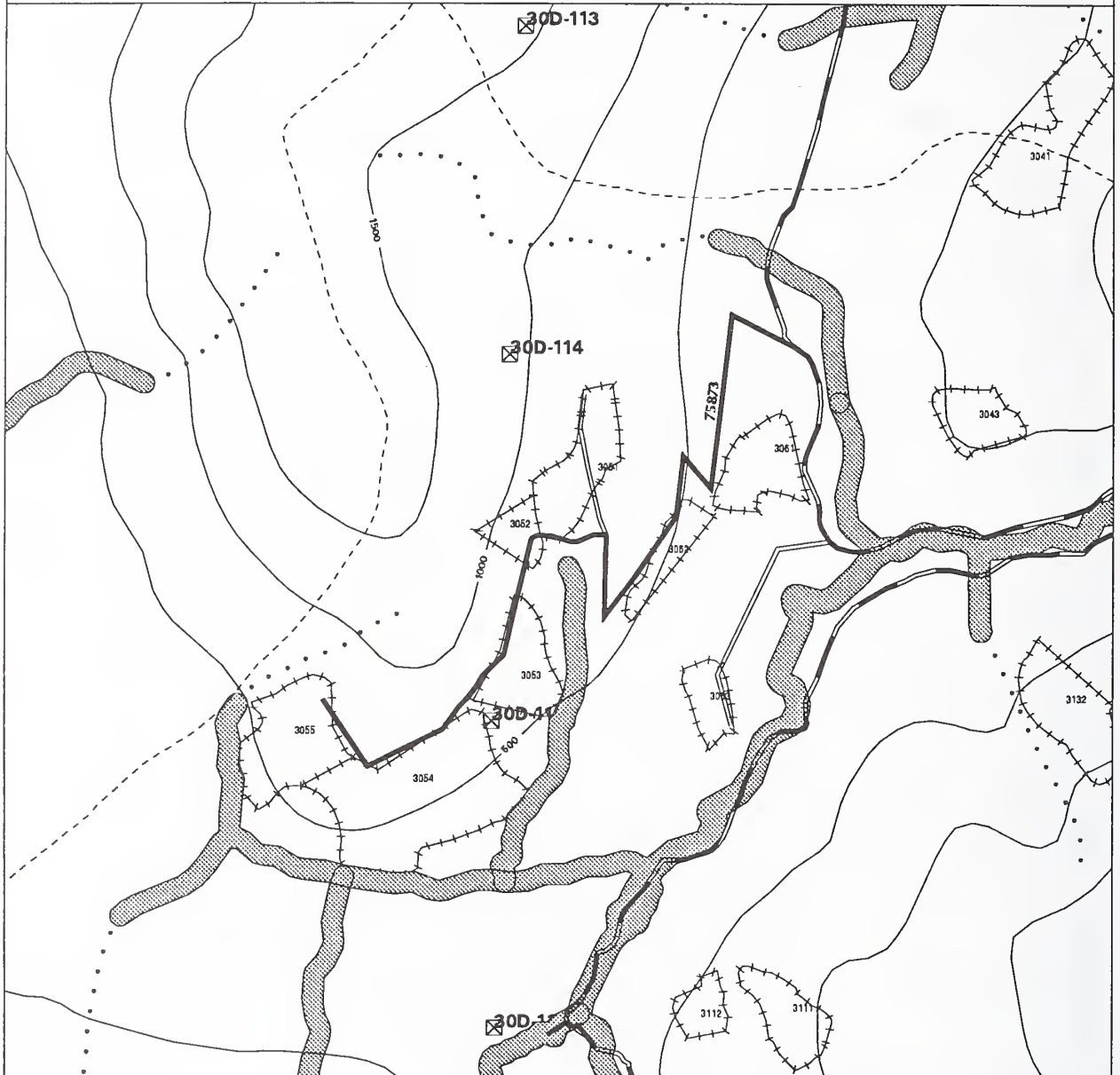
QUAD (S) : SITB5NE

Miles of existing road 0

VCU (S) : 289, 292

Miles of proposed road 2

Total miles: 2



LEGEND:

UNIT BOUNDARY

SUBJECT ROAD 75873

EXISTING ROAD

PLANNED ROAD

TEMPORARY ROAD

LOG TRANSFER FACILITY

4270

500 FT CONTOUR INTERVAL

0 0.33 0.67 Miles

Map Scale 1:21120

CLASS III STREAM

CLASS II-NO BUFFER

CLASS I & II STREAM BUFFER

SHORELINE

.....

.....

.....

.....

PHOTO POINT

EAGLE TREE

VCU line

QUAD line

⊗

↑

.....

NORTHWEST BARANOF HARVEST ROAD CARD

VCU: 2920 ROAD NUMBER: 75873		
{ LANDS }	FIELD REVIEWED: No	RECOMMENDED BY: J.Morrell
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No Concerns		
{ ROADS }	FIELD REVIEWED: Yes	RECOMMENDED BY: T.Allio
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Full bench, end haul, oversteepened slope, V-notches		
{ SOILS }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Huecker
SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist or Geotechnical Engineer		
REMARKS: Crosses oversteepened, cliffy slopes, and V-notches.		
{ FISHERIES }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Lorenz
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Extra ditch relief cross-drains should be planned for sloped bogs, and culverts at active channels should be sized with consideration given to increased drainage from ditchlines (BMP 14.9).		
{ HYDROLOGY }	FIELD REVIEWED: Yes	RECOMMENDED BY: D.Kelliher
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: None Provided		
{ WILDLIFE }	FIELD REVIEWED: No	RECOMMENDED BY: C.Hartmann
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ VISUALS }	FIELD REVIEWED: Yes	RECOMMENDED BY: E.Ouderkirk
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Within visual quality objective		
{ RECREATION }	FIELD REVIEWED: No	RECOMMENDED BY: B.Flynn
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ HERITAGE }	FIELD REVIEWED: No	RECOMMENDED BY: R.Myron
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Low probability area		

NORTHWEST BARANOF PROJECT ROAD CARD

PLANNED ROAD ROUTE MAP

ROUTE NUMBER: 7558

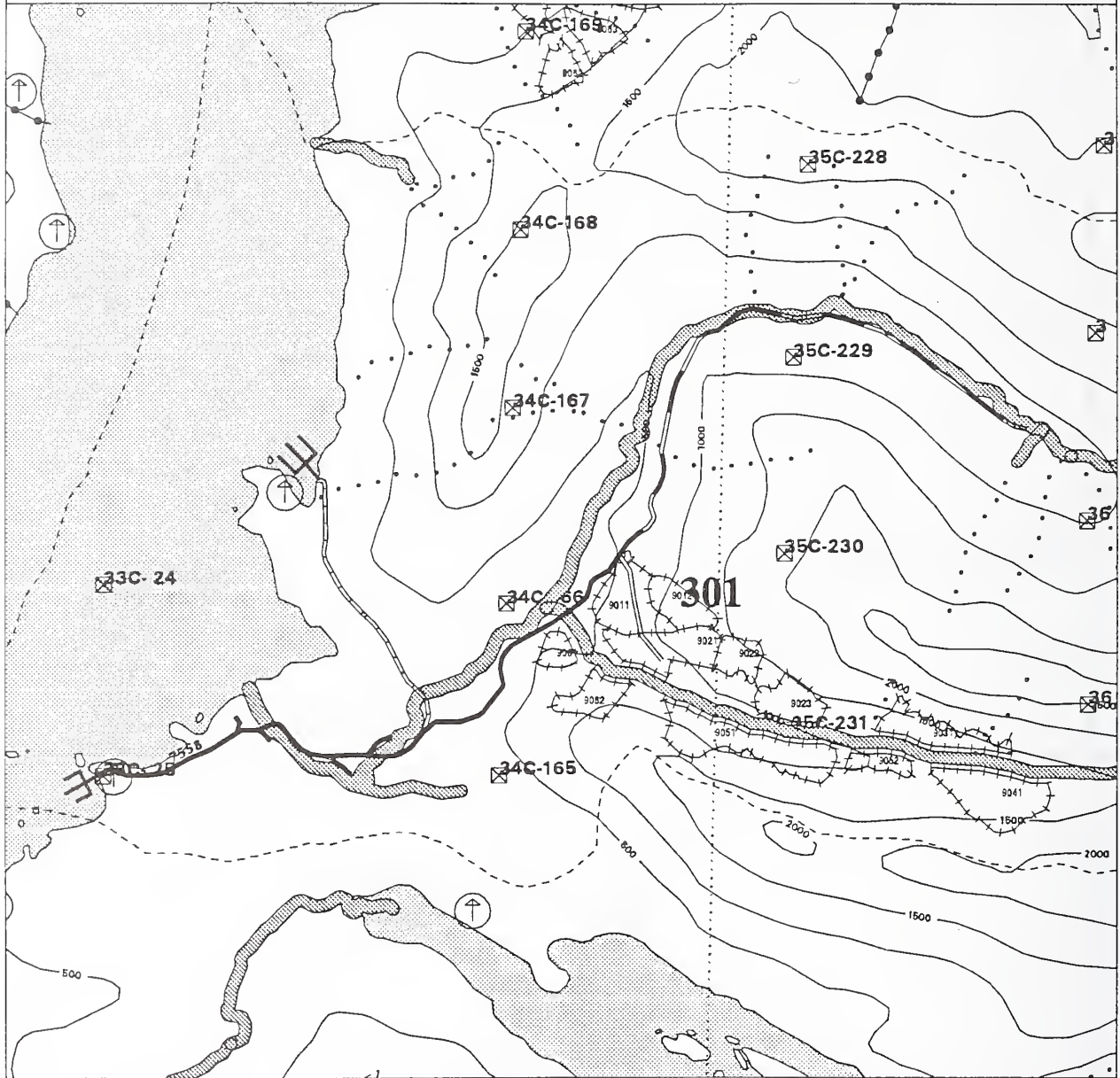
QUAD (S) : SITA5NE, SITA4NW

Miles of existing road 4.4

VCU (S) : 300, 301, 313

Miles of proposed road 0

Total miles: 4.4



LEGEND:

UNIT BOUNDARY	
SUBJECT ROAD 7558	
EXISTING ROAD	
PLANNED ROAD	
TEMPORARY ROAD	
LOG TRANSFER FACILITY	

500 FT CONTOUR INTERVAL

CLASS III STREAM	
CLASS II-NO BUFFER	
CLASS I & II STREAM BUFFER	
SHORELINE	

Map Scale 1:37500

0 0.58 1.18 Miles

PHOTO POINT	
EAGLE TREE	
VCU line	
QUAD line	

NORTHWEST BARANOF HARVEST ROAD CARD

VCU: 3010 ROAD NUMBER: 7558

{ LANDS } FIELD REVIEWED: Yes RECOMMENDED BY: J.Morrell
 SPECIALISTS NEEDED DURING LAYOUT: Lands Forester
 REMARKS: Existing road and existing LTF site are in state land selection AA-71691 and Native allotment applications J-011250 and A-060985. Deed of further assurance has been requested from Tlingit Haida Central Council. Federal right-of-way reservation and concurrence with AK.DNR is required to build road over state land selection.

{ ROADS } FIELD REVIEWED: Yes RECOMMENDED BY: T.Allio
 SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist, Hydrologist
 REMARKS: Reconstruction of this route required from the existing LTF site. Easement needed for the LTF site and road through Native claim and state land. Road crosses Class I stream. Recommend a hydrological analysis following road location to determine bridge or drainage structure specifications. Provide for fish passage. Follow BMP guidelines for excavation, material placement and instream operations (timing) in fish streams. There may be a requirement for two 100-foot bridges and one 80-foot bridge for the stream crossings. Cultural needs to be involved to assure that no cultural site is encountered while reconstructing the road. Army Corps permit and EPA permits may be required as we will have to encroach on the beach to avoid the cultural sites.

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No concerns

{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz
 SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist
 REMARKS: Route closely parallels high-value pink and chum salmon spawning habitat. Care should be taken during reconstruction to dispose of cleared alder, stumps and road surface organics to an approved site outside floodplain (BMP 14.10). Running surface will be immediately adjacent to primary spawning grounds, so road surface should be capped with clean shot rock material (BMP 14.8). Road maintenance activities, such as blading and snow removal, should be conducted with the objective of minimizing sediment input into spawning channels (BPM 14.20). Timely erosion control, particularly heavy grass seeding adjacent to stream channels, may be an effective way to trap sediments from normal road use and maintenance (BMP 14.11). Provide for fish passage and adequate water conveyance on Class I stream crossings and overflow channels in floodplain (BMP 14.17). LTF design and implementation as per BMP's 14.25, 14.26 and 14.27.

{ HYDROLOGY } FIELD REVIEWED: Yes RECOMMENDED BY: D.Kelliher
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: None Provided

{ WILDLIFE } FIELD REVIEWED: Yes RECOMMENDED BY: C.Hartmann
 SPECIALISTS NEEDED DURING LAYOUT: Wildlife Biologist
 REMARKS: Contains a eagle nest, number 12315007, within the required 330-foot eagle nest tree buffer. Road reconstruction will need a variance from the USFWS.

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: Within visual quality objective

{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
 SPECIALISTS NEEDED DURING LAYOUT: None Needed
 REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: Yes RECOMMENDED BY: R.Myron
 SPECIALISTS NEEDED DURING LAYOUT: Archeologist
 REMARKS: Archeological survey completed for all portions of Road 7558 under 100 feet in elevation and for the proposed LTF site. Two sites identified. The following stipulations are required to prevent effects to the two sites.

1. Reconstruction along Road 7558 between Lisa Creek and the proposed LTF site must be limited to the existing road surface or the downslope, water-side of the existing road bed.
2. No ditchline excavation shall be planned upslope of the existing road between Lisa Creek and the proposed LTF site.
3. An Archeologist shall work with the road designer in designing the road segment between Lisa Creek and the proposed LTF site. The road design will be subject to approval by the Forest Archeologist.
4. Any excavation in and around the proposed LTF site requires archeological review.
5. An Archeologist will monitor road and LTF construction at the time of implementation. If there is any threat to the archeological sites or if additional archeological resources are encountered, project activity will stop.
6. Any changes in the road and LTF location will be subject to review under Section 106 of the National Historic Preservation Act, as amended.

NORTHWEST BARANOF PROJECT ROAD CARD

PLANNED ROAD ROUTE MAP

ROUTE NUMBER: 75581

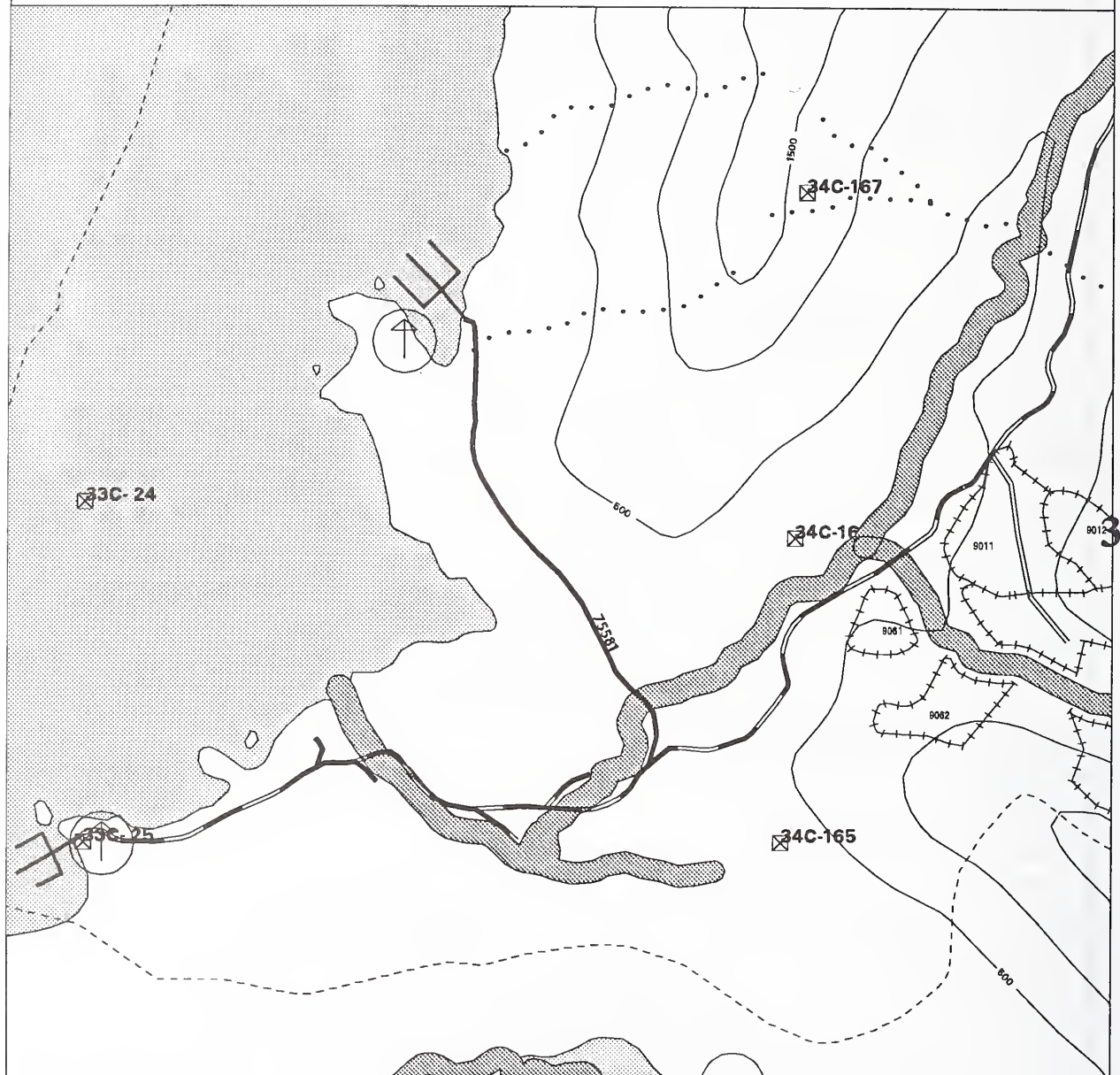
QUAD (S) : SITA5NE

Miles of existing road 0

VCU (S) : 301

Miles of proposed road 1

Total miles: 1



LEGEND:

UNIT BOUNDARY
SUBJECT ROAD 75581

EXISTING ROAD
PLANNED ROAD

TEMPORARY ROAD
LOG TRANSFER FACILITY

4270

0 0.33 0.67 Miles

Map Scale 1:21120

CLASS III STREAM
CLASS II-NO BUFFER
CLASS I & II STREAM BUFFER
SHORELINE

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PHOTO POINT

EAGLE TREE

VCU line

QUAD line



NORTHWEST BARANOF HARVEST ROAD CARD

VCU: 3010 ROAD NUMBER: 75581

{ LANDS } FIELD REVIEWED: Yes RECOMMENDED BY: J.Morrell
SPECIALISTS NEEDED DURING LAYOUT: Lands Forester
REMARKS: Approximately 0.5 mile of new road through state selection AA-71691. Concurrence with AK DNR and federal right-of-way reservation required to construct this road.

{ ROADS } FIELD REVIEWED: Yes RECOMMENDED BY: T.Allio
SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist and Hydrologist
REMARKS: Route climbs out of the LTF site through a rock nose that can be used as a rock source for the road. Route will require a easement through state land. Recommend a hydrological analysis following road location to determine bridge or drainage structure specifications. Provide for fish passage. Follow BMP guidelines for excavation, material placement and instream operations (timing) in fish streams. A 100-foot bridge may be required to cross the Class I stream.

{ SOILS } FIELD REVIEWED: Yes RECOMMENDED BY: B.Huecker
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: No concerns were identified. Part of route is mapped as having a high mass-movement hazard; request that a soil scientist be notified if questionable areas are encountered during layout.

{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: See Hydrology for Remarks

{ HYDROLOGY } FIELD REVIEWED: Yes RECOMMENDED BY: D.Kelliher
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: None Provided

{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: No specific concerns

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: Locate road to minimize visual impacts from key viewpoints. Locate and design rockpits to minimize visual impacts. Fully rehabilitate rock pit area. Retain screen trees. Apply grass seed and fertilizer to all cut and fill banks.

{ RECREATION } FIELD REVIEWED: Yes RECOMMENDED BY: B.Flynn
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: Keep road location from LTF to Lisa Creek as far away from beach fringe as possible to reduce impact on nearby camp site.

{ HERITAGE } FIELD REVIEWED: Yes RECOMMENDED BY: R.Myron
SPECIALISTS NEEDED DURING LAYOUT: Archeologist
REMARKS: Archeological survey completed for all portions of Road 75581 under 100 feet in elevation and for the proposed LTF location at the terminus of Road 75581. No sites identified. An archeologist should be notified at the final design stage for Road 75581. Working with other specialists, the Archeologist needs to confirm that nearby historic properties will not be damaged indirectly by harvest. Further Section 106 review required for on-shore developments at distances greater than 100m from identified LTF and HILT locations; this includes any facilities, shore ties, or camps.

NORTHWEST BARANOF PROJECT ROAD CARD

PLANNED ROAD ROUTE MAP

ROUTE NUMBER: 7583

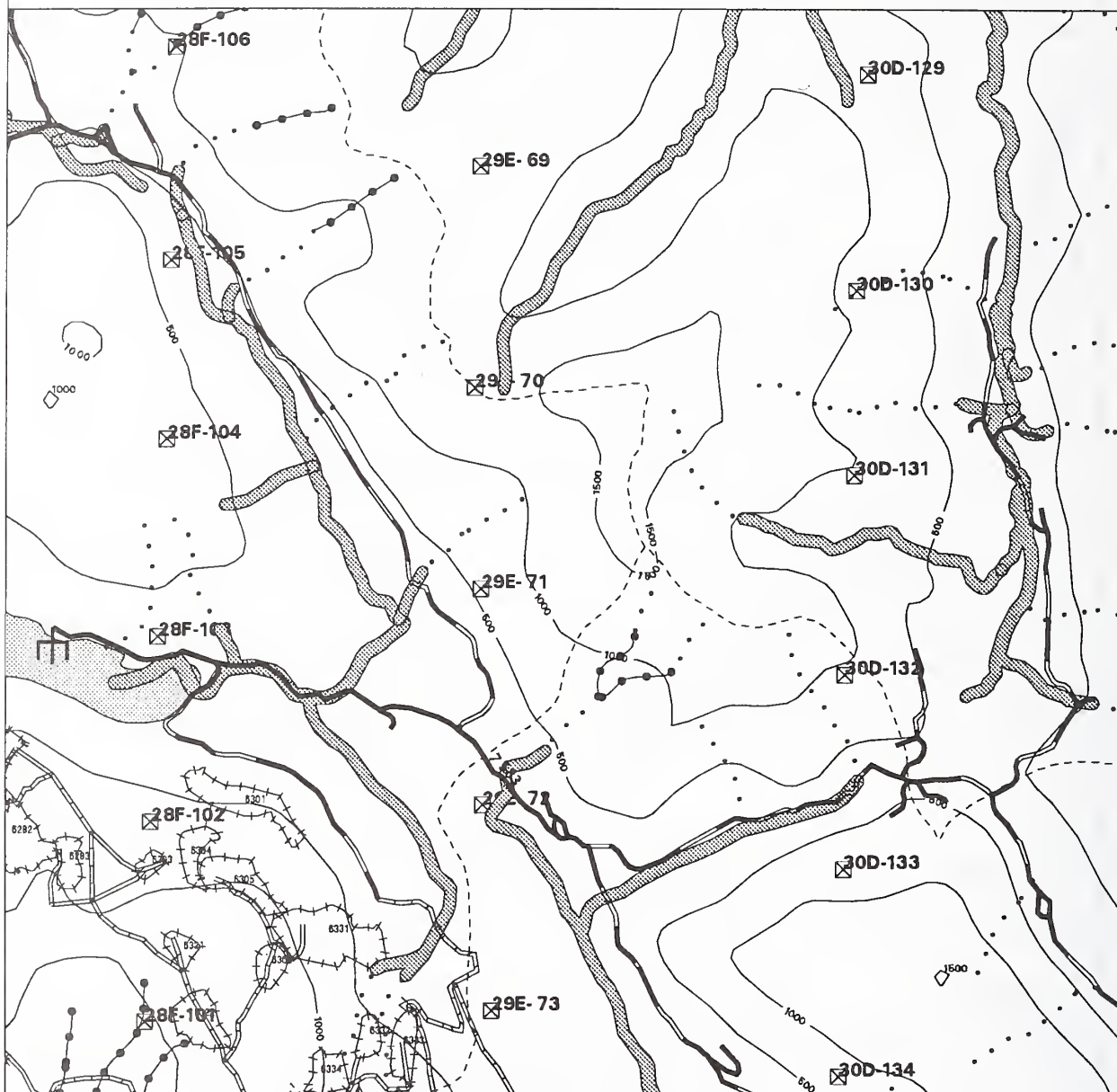
QUAD (S) : SITB5SW, SITB5SE

Miles of existing road 6

VCU (S) : 287, 302, 300

Miles of proposed road 0

Total miles: 6



LEGEND:

UNIT BOUNDARY

SUBJECT ROAD 7583

EXISTING ROAD

PLANNED ROAD

TEMPORARY ROAD

LOG TRANSFER FACILITY

4270

0 0.68 1.18 Miles

Map Scale 1:37500

500 FT CONTOUR INTERVAL

CLASS III STREAM

CLASS II-NO BUFFER

CLASS I & II STREAM BUFFER

SHORELINE

PHOTO POINT

EAGLE TREE

VCU line

QUAD line

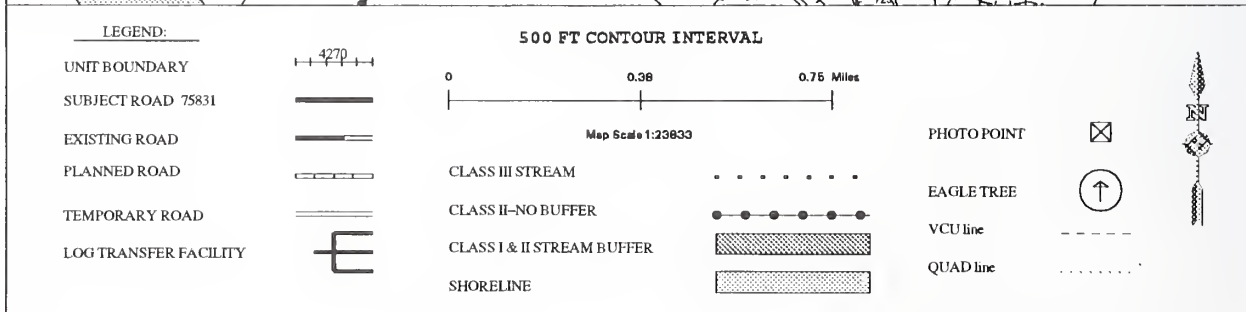
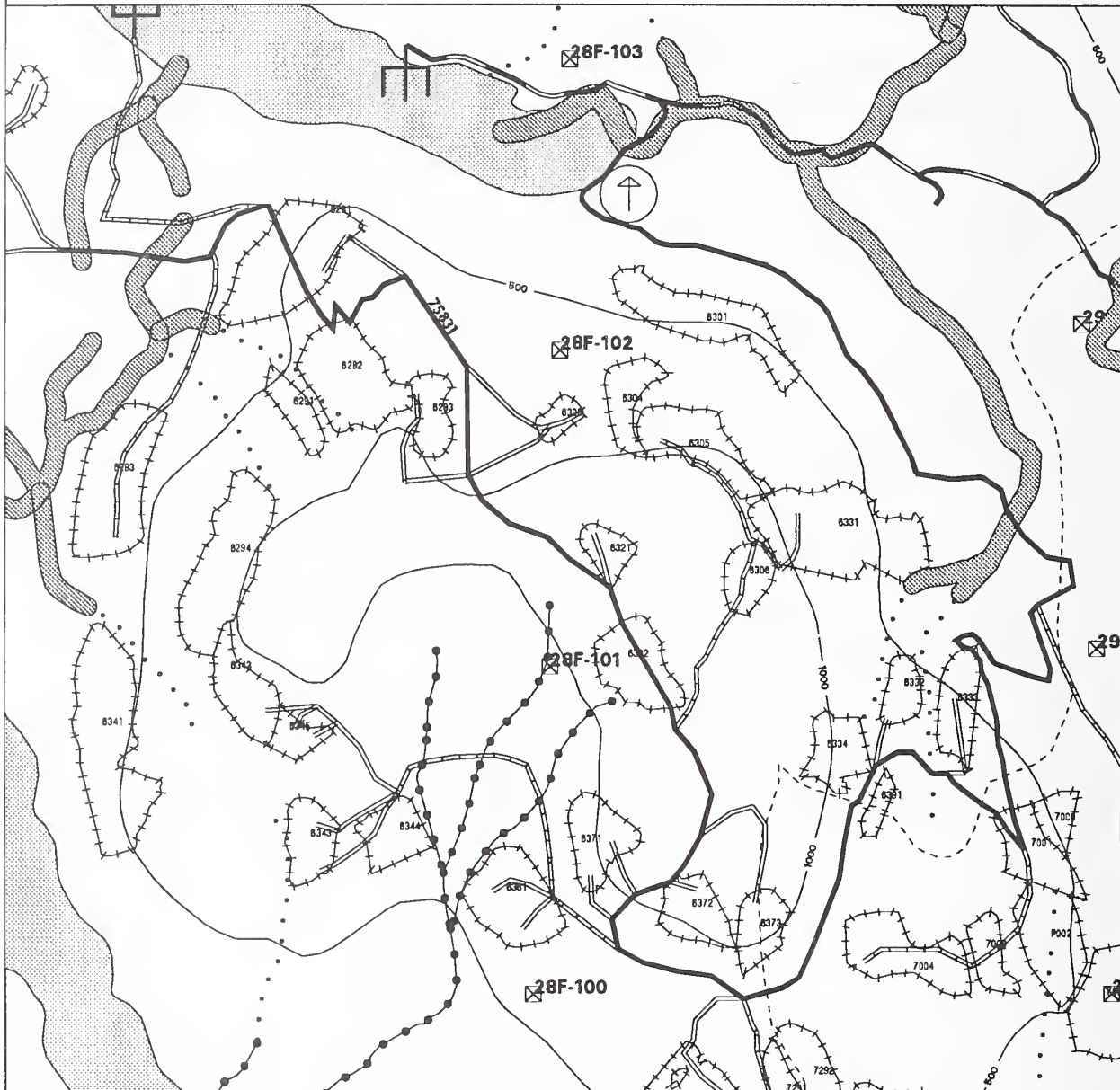
NORTHWEST BARANOF HARVEST ROAD CARD

VCU: 2870 ROAD NUMBER: 7583		
{ LANDS }	FIELD REVIEWED: No	RECOMMENDED BY: J.Morrell
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No Concerns		
{ ROADS }	FIELD REVIEWED: No	RECOMMENDED BY: T.Allio
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: None Provided		
{ SOILS }	FIELD REVIEWED: No	RECOMMENDED BY: B.Huecker
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: None Provided		
{ FISHERIES }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Lorenz
SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist		
REMARKS: Replace existing small CMP with larger pipe sized to provide fish passage and to minimize channel constriction at Class I stream between the LTF and the junction with Road 75831 (BMP 14.17).		
{ HYDROLOGY }	FIELD REVIEWED: Yes	RECOMMENDED BY: D.Kelliher
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: None Provided		
{ WILDLIFE }	FIELD REVIEWED: No	RECOMMENDED BY: C.Hartmann
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ VISUALS }	FIELD REVIEWED: Yes	RECOMMENDED BY: E.Onderkirk
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Within visual quality objective		
{ RECREATION }	FIELD REVIEWED: No	RECOMMENDED BY: B.Flynn
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ HERITAGE }	FIELD REVIEWED: Yes	RECOMMENDED BY: R.Myron
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Archeological survey completed for all portions of Road 7583 under 100 feet in elevation. No sites identified.		

NORTHWEST BARANOF PROJECT ROAD CARD

PLANNED ROAD ROUTE MAP

ROUTE NUMBER:	75831	QUAD (S) :	SITB5SW
Miles of existing road	1.3	VCU (S) :	302, 300
Miles of proposed road	5.7		
Total miles:	7		



NORTHWEST BARANOF HARVEST ROAD CARD

VCU: 3000 ROAD NUMBER: 75831		
{ LANDS }	FIELD REVIEWED: No	RECOMMENDED BY: J.Morrell
SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No Concerns		
{ ROADS }	FIELD REVIEWED: No	RECOMMENDED BY: T.Allio
SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: None Provided		
{ SOILS }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Huecker
SPECIALISTS NEEDED DURING LAYOUT: Soils REMARKS: Segment 1042.44 crosses areas of oversteepened and unstable soils. These areas will require full bench and endhaul construction to minimize impacts. Request a Soil Scientist or Geotechnical Engineer be present during road layout.		
{ FISHERIES }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Lorenz
SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist REMARKS: Reconstruction section crosses two Class I fish streams at head of estuary, including St. John's Creek (BMP 14.6, 14.17). Farther on, the existing road intercepts several streams on a skew at base of footslope. Erosion control measures needed to prevent road surface erosion and sedimentation (BMP 14.8, 14.9, 14.11). During reconstruction, care should be taken to prevent alder or surface organics from being pushed into live streams that run down the road ditch (BMP 14.12, 14.19). Proposed new construction crosses many small, wetland fish channels (PAo channel type), some of which are nearly obscured by sedges. Fish passage should be maintained in these channels. Extra ditch relief should be planned for sloped bogs to prevent erosion of road prism and to minimize disturbance of natural groundwater flow (BMP 14.9). Maintain minimum of 100' buffer between small wetland fish streams and clearing limits for road right of way.		
{ HYDROLOGY }	FIELD REVIEWED: Yes	RECOMMENDED BY: D.Kelliher
SPECIALISTS NEEDED DURING LAYOUT: Hydrologist/Fish Biologist REMARKS: One alluvial fan/Class I crossing, road also parallels an MC 1 channel, Class I, BMPs 12.4, 12.6 and 14.17 apply.		
{ WILDLIFE }	FIELD REVIEWED: No	RECOMMENDED BY: C.Hartmann
SPECIALISTS NEEDED DURING LAYOUT: Wildlife Biologist REMARKS: Road is within 330-foot eagle nest tree buffer (Eagle nest tree #12325077). Road reconstruction will require variance from USFWS.		
{ VISUALS }	FIELD REVIEWED: Yes	RECOMMENDED BY: E.Ouderkirk
SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Locate road to minimize visual impacts from key viewpoints. Locate and design rockpits to minimize visual impacts. Fully rehabilitate rock pit area. Retain screen trees. Apply grass seed and fertilizer to all cut and fill banks.		
{ RECREATION }	FIELD REVIEWED: No	RECOMMENDED BY: B.Flynn
SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: No specific concerns		
{ HERITAGE }	FIELD REVIEWED: No	RECOMMENDED BY: R.Myron
SPECIALISTS NEEDED DURING LAYOUT: None Needed REMARKS: Low probability area		

NORTHWEST BARANOF PROJECT ROAD CARD

PLANNED ROAD ROUTE MAP

ROUTE NUMBER: 75831S

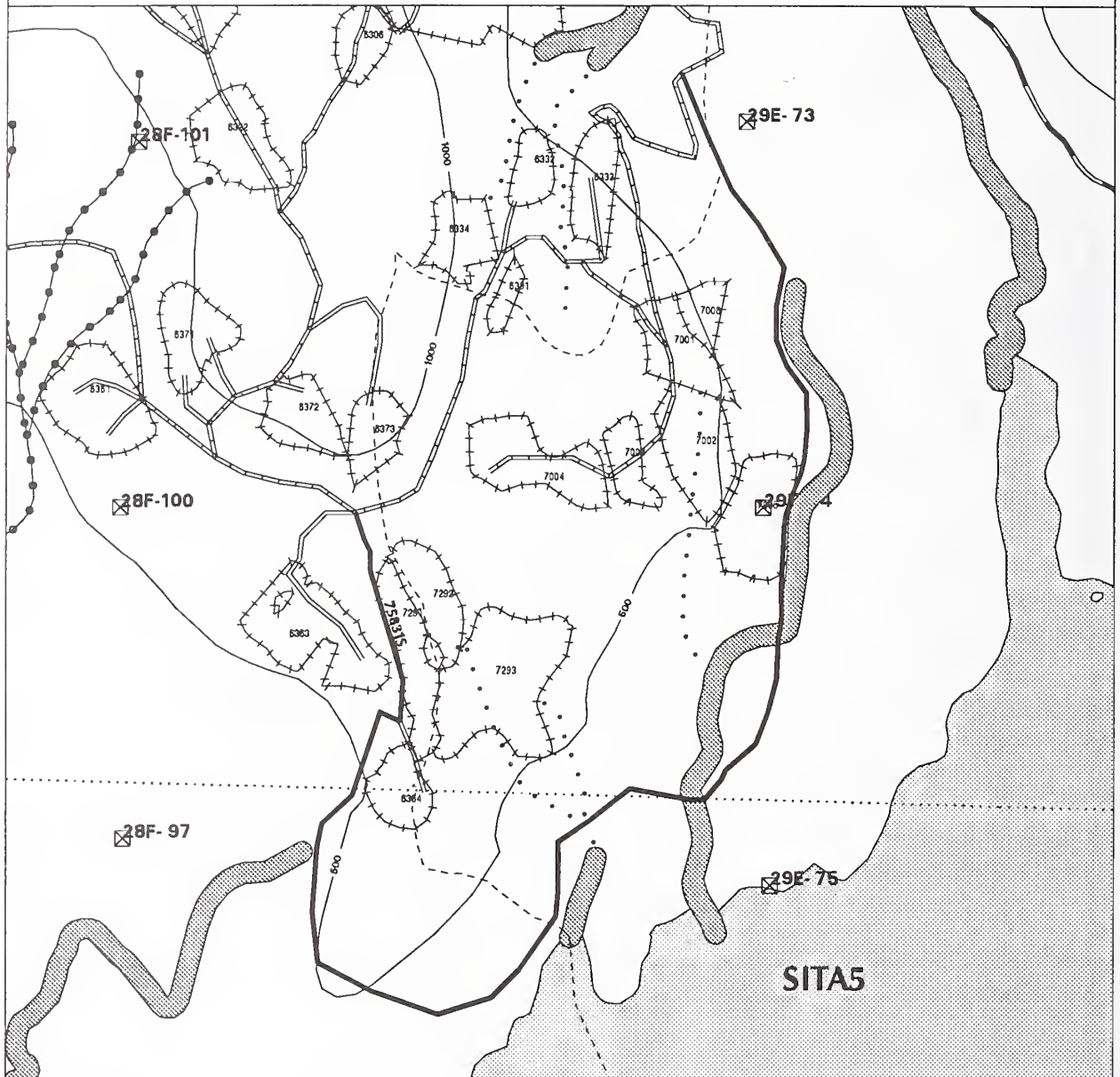
QUAD (S) : SITB5SW, SITA5NW

Miles of existing road 0

VCU (S) : 302, 300

Miles of proposed road 3.6

Total miles: 3.6



LEGEND:

UNIT BOUNDARY

SUBJECT ROAD 75831S

EXISTING ROAD

PLANNED ROAD

TEMPORARY ROAD

LOG TRANSFER FACILITY

4270

500 FT CONTOUR INTERVAL

0 0.33 0.67 Miles

Map Scale 1:21120

CLASS III STREAM

CLASS II-NO BUFFER

CLASS I & II STREAM BUFFER

SHORELINE

PHOTO POINT

EAGLE TREE

VCU line

QUAD line

NORTHWEST BARANOF HARVEST ROAD CARD

VCU: 300/302 ROAD NUMBER: 75831S		
{ LANDS }	FIELD REVIEWED: No	RECOMMENDED BY: J.Morrell
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No Concerns		
{ ROADS }	FIELD REVIEWED: Yes	RECOMMENDED BY: T.Allio
SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist, Hydrologist, Geotechnical Engineer		
REMARKS: Oversteepened slopes, full bench, Class I stream. Recommend a hydro-logical analysis following road location to determine bridge or drainage structure specifications. Provide for fish passage. Follow BMP guidelines for excavation, material placement and instream operations (timing) in fish streams.		
{ SOILS }	FIELD REVIEWED: Yes	RECOMMENDED BY: R.Huecker
SPECIALISTS NEEDED DURING LAYOUT: Soil Scientist		
REMARKS: Request soils review for unstable slopes if this route is to be constructed.		
{ FISHERIES }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Lorenz
SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist		
REMARKS: Approximately 1.5 miles of road parallels a fish stream. Road clearing limits should be located a minimum of 100' from stream. Where road is located on steep side slopes, a larger buffer may be necessary to protect water quality. Proposed route at base of Unit 7005 (planned for helicopter yarding) would extend well into 100' stream buffer. Class I fish habitat begins at southeast edge of Unit, with Class II habitat located upstream. This route should be relocated to east side of stream, outside buffer (BMP 12.6a).		
{ HYDROLOGY }	FIELD REVIEWED: Yes	RECOMMENDED BY: D.Kelliher
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: None Provided		
{ WILDLIFE }	FIELD REVIEWED: No	RECOMMENDED BY: C.Hartmann
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ VISUALS }	FIELD REVIEWED: Yes	RECOMMENDED BY: E.Onderkirk
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Within visual quality objective		
{ RECREATION }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Flynn
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Where this road gets very close to Nakwasina Passage near the road's southernmost point, locate and construct road to prevent unregulated access by ORVs from this shore while allowing relatively easy foot access.		
{ HERITAGE }	FIELD REVIEWED: Yes	RECOMMENDED BY: R.Myron
SPECIALISTS NEEDED DURING LAYOUT: Archeologist		
REMARKS: Archeological survey completed for all portions of Road 75831S under 100 feet in elevation. No sites identified. An Archeologist should be notified at the final design stage for Road 75831S. Working with other specialists, the Archeologist needs to confirm that nearby historic properties will not be damaged indirectly by project activity.		

NORTHWEST BARANOF PROJECT ROAD CARD

PLANNED ROAD ROUTE MAP

ROUTE NUMBER: 758311

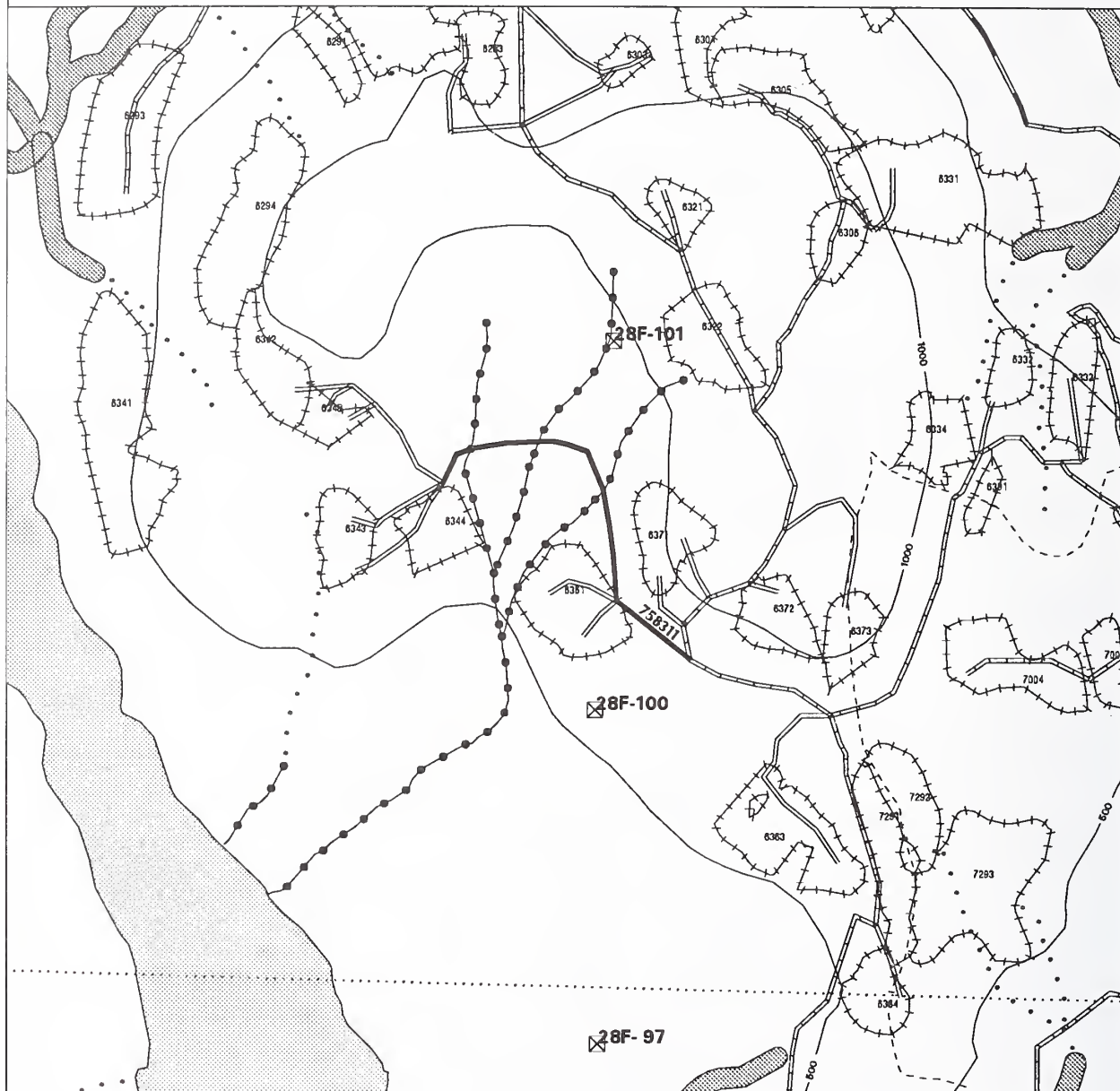
QUAD (S) : SIT85SW

Miles of existing road 0

VCU (S) : 302

Miles of proposed road 0.8

Total miles: 0.8



LEGEND:

UNIT BOUNDARY



SUBJECT ROAD 758311



EXISTING ROAD



PLANNED ROAD



TEMPORARY ROAD



LOG TRANSFER FACILITY



500 FT CONTOUR INTERVAL

0 0.33 0.67 Miles

Map Scale 1:21120

CLASS III STREAM



CLASS II-NO BUFFER



CLASS I & II STREAM BUFFER



SHORELINE



PHOTO POINT



EAGLE TREE



VCU line



QUAD line



NORTHWEST BARANOF HARVEST ROAD CARD

VCU: 3020 ROAD NUMBER: 758311		
{ LANDS }	FIELD REVIEWED: No	RECOMMENDED BY: J.Morrell
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No Concerns		
{ ROADS }	FIELD REVIEWED: Yes	RECOMMENDED BY: T.Allio
SPECIALISTS NEEDED DURING LAYOUT: Hydrologist		
REMARKS: Route crosses a Class II stream. Recommend a hydrological analysis following road location to determine bridge or drainage structure specifications. Provide for fish passage. Follow BMP guidelines for excavation, material placement and instream operations (timing) in fish streams. The structure will be removed at the completion of the project.		
{ SOILS }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Huecker
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No concerns were identified. Part of route is mapped as having a high mass-movement hazard; request Soil Scientist presence if questionable areas are encountered during layout.		
{ FISHERIES }	FIELD REVIEWED: No	RECOMMENDED BY: B.Lorenz
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No fish passage concerns, although control of excavation and sidecast material is needed around the several large v-notches to protect water quality (BMP 14.12).		
{ HYDROLOGY }	FIELD REVIEWED: Yes	RECOMMENDED BY: D.Kelliher
SPECIALISTS NEEDED DURING LAYOUT: Hydrologist		
REMARKS: Several v-notch crossings, BMP 14.17		
{ WILDLIFE }	FIELD REVIEWED: No	RECOMMENDED BY: C.Hartmann
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ VISUALS }	FIELD REVIEWED: Yes	RECOMMENDED BY: E.Ouderkirk
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Within visual quality objective		
{ RECREATION }	FIELD REVIEWED: No	RECOMMENDED BY: B.Flynn
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ HERITAGE }	FIELD REVIEWED: No	RECOMMENDED BY: R.Myron
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Low probability area		

NORTHWEST BARANOF PROJECT ROAD CARD

PLANNED ROAD ROUTE MAP

ROUTE NUMBER: 758313

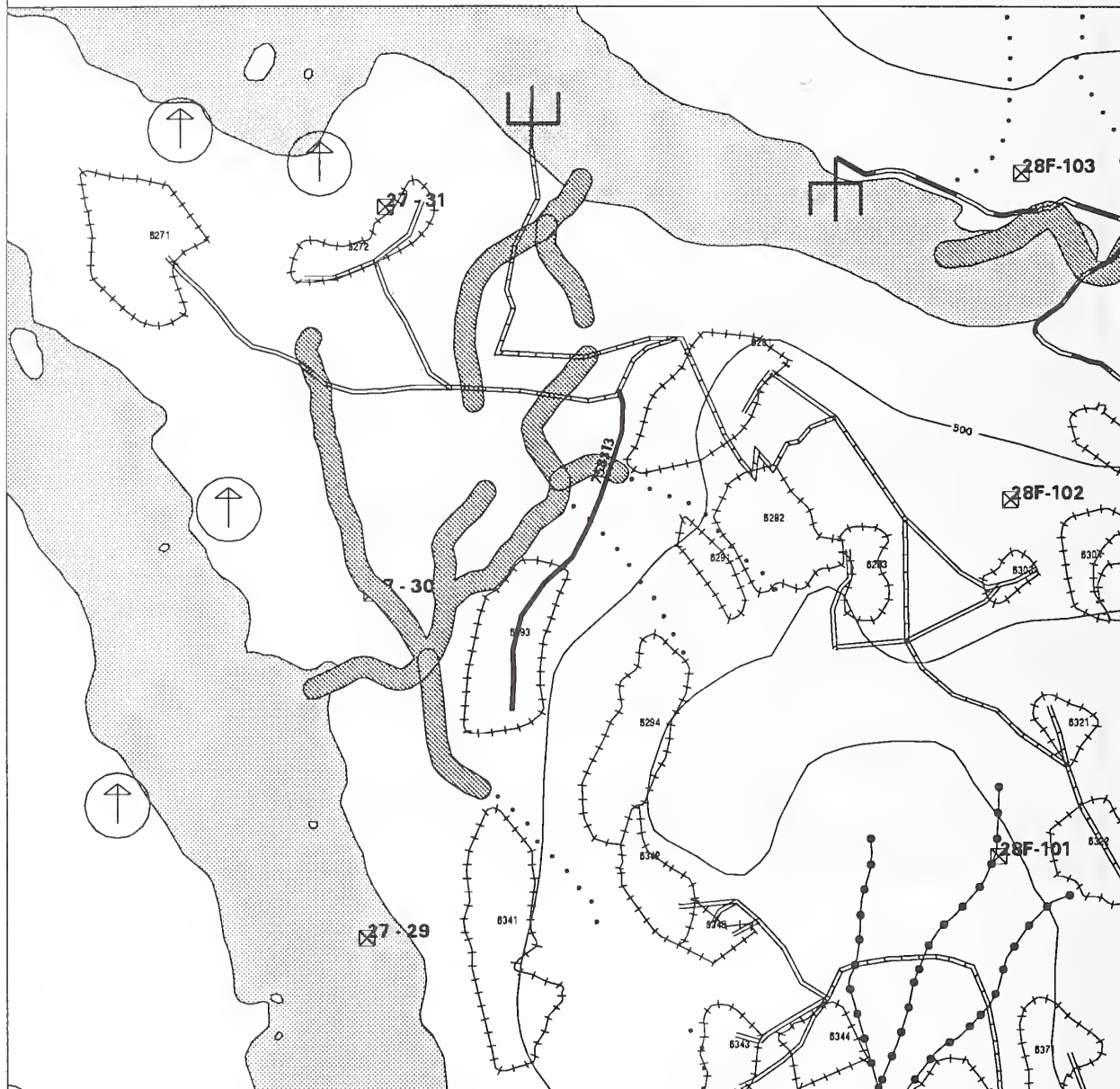
QUAD (S) : SITB5SW

Miles of existing road 0

VCU (S) : 302

Miles of proposed road 0.7

Total miles: 0.7



LEGEND:

UNIT BOUNDARY

SUBJECT ROAD 758313

EXISTING ROAD

PLANNED ROAD

TEMPORARY ROAD

LOG TRANSFER FACILITY

4270

0 0.33 0.67 Miles

Map Scale 1:21120

CLASS III STREAM

CLASS II-NO BUFFER

CLASS I & II STREAM BUFFER

SHORELINE

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PHOTO POINT

EAGLE TREE

VCU line

QUAD line

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NORTHWEST BARANOF HARVEST ROAD CARD

VCU: 3020 ROAD NUMBER: 758313		
{ LANDS }	FIELD REVIEWED: No	RECOMMENDED BY: J.Morrell
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No Concerns		
{ ROADS }	FIELD REVIEWED: Yes	RECOMMENDED BY: T.Allio
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Class II Stream, helicopter landing. Recommend a hydrological analysis following road location to determine bridge or drainage structure specifications. Provide for fish passage. Follow BMP guidelines for excavation, material placement and instream operations (timing) in fish streams.		
{ SOILS }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Huecker
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Ensure Class II stream is protected during construction.		
{ FISHERIES }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Lorenz
SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist		
REMARKS: One mapped Class II stream and small, unmapped wetland fish streams occur at north end of road. Fish passage should be provided (BMP 14.17).		
{ HYDROLOGY }	FIELD REVIEWED: Yes	RECOMMENDED BY: D.Kelliher
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: None Provided		
{ WILDLIFE }	FIELD REVIEWED: No	RECOMMENDED BY: C.Hartmann
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ VISUALS }	FIELD REVIEWED: Yes	RECOMMENDED BY: E.Ouderkirk
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Within visual quality objective		
{ RECREATION }	FIELD REVIEWED: No	RECOMMENDED BY: B.Flynn
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ HERITAGE }	FIELD REVIEWED: No	RECOMMENDED BY: R.Myron
SPECIALISTS NEEDED DURING LAYOUT: Archeologist		
REMARKS: An Archeologist should be notified at the final design stage for Road 758313. Working with other specialists, the Archeologist needs to confirm that nearby historic properties will not be damaged indirectly by harvest.		

NORTHWEST BARANOF PROJECT ROAD CARD

PLANNED ROAD ROUTE MAP

ROUTE NUMBER: 758314

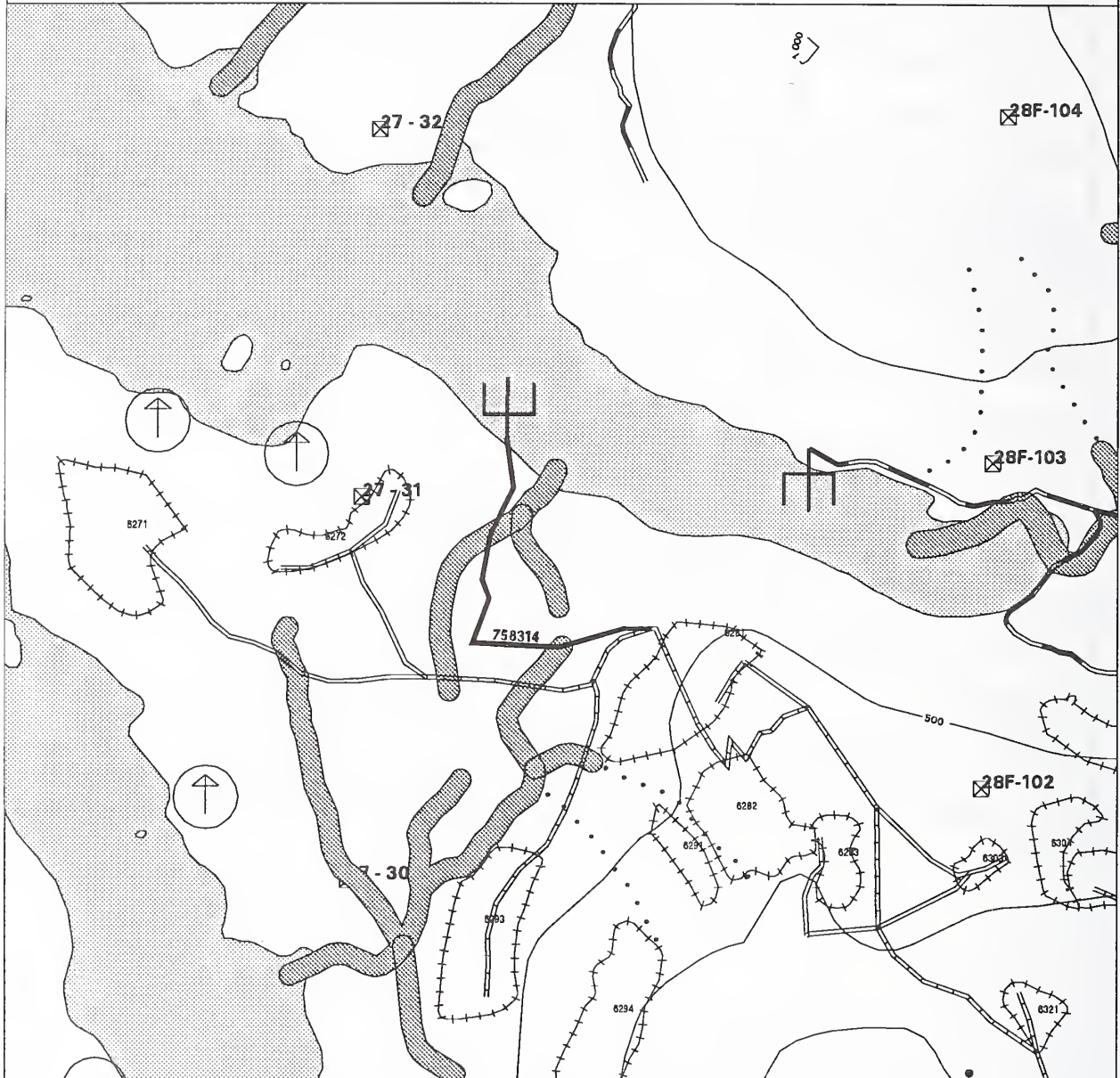
QUAD (S) : SITB5SW

Miles of existing road 0

VCU (S) : 302

Miles of proposed road 0.8

Total miles: 0.8



LEGEND:

UNIT BOUNDARY

SUBJECT ROAD 758314

EXISTING ROAD

PLANNED ROAD

TEMPORARY ROAD

LOG TRANSFER FACILITY

4270

500 FT CONTOUR INTERVAL

0 0.39 0.67 Miles

Map Scale 1:21120

CLASS III STREAM

CLASS II-NO BUFFER

CLASS I & II STREAM BUFFER

SHORELINE

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PHOTO POINT

EAGLE TREE

VCU line

QUAD line

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NORTHWEST BARANOF HARVEST ROAD CARD

VCU: 3020 ROAD NUMBER: 758314		
{ LANDS }	FIELD REVIEWED: No	RECOMMENDED BY: J.Morrell
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No Concerns		
{ ROADS }	FIELD REVIEWED: Yes	RECOMMENDED BY: T.Allio
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: LTF Class I stream, bridge, rock pit. Recommend a hydrological analysis following road location to determine bridge or drainage structure specifications. Provide for fish passage. Follow BMP guidelines for excavation, material placement and instream operations (timing) in fish streams.		
{ SOILS }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Huecker
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Ensure Class I Stream is protected during construction.		
{ FISHERIES }	FIELD REVIEWED: No	RECOMMENDED BY: B.Lorenz
SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist		
REMARKS: Protect fish stream as per BMP 14.17. LTF design and operation as per BMP's 14.25, 14.26 and 14.27.		
{ HYDROLOGY }	FIELD REVIEWED: Yes	RECOMMENDED BY: D.Kelliher
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: None Provided		
{ WILDLIFE }	FIELD REVIEWED: No	RECOMMENDED BY: C.Hartmann
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ VISUALS }	FIELD REVIEWED: Yes	RECOMMENDED BY: E.Ouderkirk
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Within visual quality objective		
{ RECREATION }	FIELD REVIEWED: No	RECOMMENDED BY: B.Flynn
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ HERITAGE }	FIELD REVIEWED: Yes	RECOMMENDED BY: R.Myron
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Archeological survey completed for all portions of Road 758314 under 100 feet in elevation and for the proposed LTF site at the terminus of Road 758314. No sites identified. Further Section 106 review required for onshore developments at distances greater than 100m from identified LTF and HILT locations; this includes any facilities, shore ties, or camps.		

NORTHWEST BARANOF PROJECT ROAD CARD

PLANNED ROAD ROUTE MAP

ROUTE NUMBER: 758315

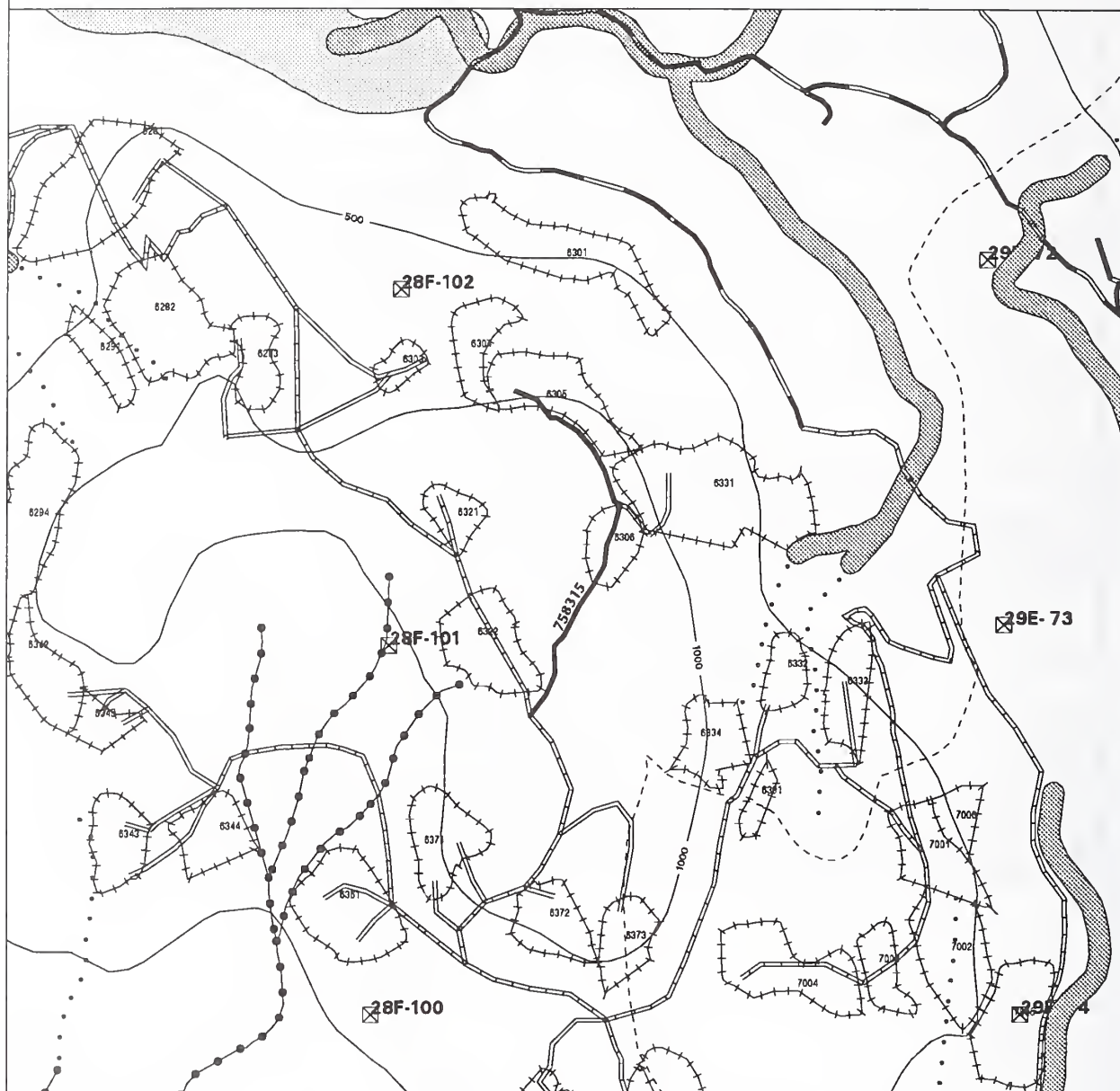
QUAD (S) : SIT85SW

Miles of existing road 0

VCU (S) : 302

Miles of proposed road 0.8

Total miles: 0.8



LEGEND:

UNIT BOUNDARY

SUBJECT ROAD 758315

EXISTING ROAD

PLANNED ROAD

TEMPORARY ROAD

LOG TRANSFER FACILITY

500 FT CONTOUR INTERVAL

0 0.33 0.67 Miles

Map Scale 1:21120

CLASS III STREAM

CLASS II-NO BUFFER

CLASS I & II STREAM BUFFER

SHORELINE

PHOTO POINT

EAGLE TREE

VCU line

QUAD line

NORTHWEST BARANOF HARVEST ROAD CARD

VCU: 3020 ROAD NUMBER: 758315

{ LANDS } FIELD REVIEWED: No RECOMMENDED BY: J.Morrell
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: No Concerns

{ ROADS } FIELD REVIEWED: Yes RECOMMENDED BY: T.Allio
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: Future reconnaissance to be completed in summer of '95.

{ SOILS } FIELD REVIEWED: No RECOMMENDED BY: B.Huecker
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: This route is mapped as having soils problems in seg. 923.01. Notify Soil Specialist if problems are identified during reconnaissance.

{ FISHERIES } FIELD REVIEWED: Yes RECOMMENDED BY: B.Lorenz
SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist
REMARKS: No fisheries concerns. Extra ditch relief should be planned for sloped bogs to prevent ditch erosion and to minimize disturbance of natural groundwater flow (BMP 14.9).

{ HYDROLOGY } FIELD REVIEWED: Yes RECOMMENDED BY: D.Kelliher
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: None Provided

{ WILDLIFE } FIELD REVIEWED: No RECOMMENDED BY: C.Hartmann
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: No specific concerns

{ VISUALS } FIELD REVIEWED: Yes RECOMMENDED BY: E.Ouderkirk
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: Within visual quality objective

{ RECREATION } FIELD REVIEWED: No RECOMMENDED BY: B.Flynn
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: No specific concerns

{ HERITAGE } FIELD REVIEWED: No RECOMMENDED BY: R.Myron
SPECIALISTS NEEDED DURING LAYOUT: None Needed
REMARKS: Low probability area

NORTHWEST BARANOF PROJECT ROAD CARD

PLANNED ROAD ROUTE MAP

ROUTE NUMBER: 758316

QUAD (S) : SITB5SW

Miles of existing road 0

VCU (S) : 302, 300

Miles of proposed road 0.6

Total miles: 0.6



LEGEND:

UNIT BOUNDARY

SUBJECT ROAD 758316

EXISTING ROAD

PLANNED ROAD

TEMPORARY ROAD

LOG TRANSFER FACILITY

500 FT CONTOUR INTERVAL

0 0.33 0.67 Miles

Map Scale 1:21120

CLASS III STREAM

CLASS II-NO BUFFER

CLASS I & II STREAM BUFFER

SHORELINE

PHOTO POINT

EAGLE TREE

VCU line

QUAD line

NORTHWEST BARANOF HARVEST ROAD CARD

VCU: 3000 ROAD NUMBER: 758316		
{ LANDS }	FIELD REVIEWED: No	RECOMMENDED BY: J.Morrell
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No Concerns		
{ ROADS }	FIELD REVIEWED: Yes	RECOMMENDED BY: T.Allio
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No Concerns		
{ SOILS }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Huecker
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No Concerns		
{ FISHERIES }	FIELD REVIEWED: No	RECOMMENDED BY: B.Lorenz
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No fisheries concerns.		
{ HYDROLOGY }	FIELD REVIEWED: Yes	RECOMMENDED BY: D.Kelliher
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: None Provided		
{ WILDLIFE }	FIELD REVIEWED: No	RECOMMENDED BY: C.Hartmann
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ VISUALS }	FIELD REVIEWED: Yes	RECOMMENDED BY: E.Ouderkirk
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Within visual quality objective		
{ RECREATION }	FIELD REVIEWED: No	RECOMMENDED BY: B.Flynn
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ HERITAGE }	FIELD REVIEWED: No	RECOMMENDED BY: R.Myron
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Low probability area		

NORTHWEST BARANOF PROJECT ROAD CARD

PLANNED ROAD ROUTE MAP

ROUTE NUMBER: 7585

QUAD (S) : SITB5SE, SITB5SW

Miles of existing road 1.8

VCU (S) : 287, 300

Miles of proposed road 0

Total miles: 1.8



LEGEND:

UNIT BOUNDARY
SUBJECT ROAD 7585

EXISTING ROAD
PLANNED ROAD

TEMPORARY ROAD

LOG TRANSFER FACILITY

4270

0 0.33 0.67 Miles

Map Scale 1:21120

CLASS III STREAM

CLASS II-NO BUFFER

CLASS I & II STREAM BUFFER

SHORELINE

CLASS III STREAM

CLASS II-NO BUFFER

CLASS I & II STREAM BUFFER

SHORELINE

PHOTO POINT

EAGLE TREE

VCU line

QUAD line

PHOTO POINT

EAGLE TREE

VCU line

QUAD line

PHOTO POINT

EAGLE TREE

VCU line

QUAD line

NORTHWEST BARANOF HARVEST ROAD CARD

VCU: 3000 ROAD NUMBER: 7585		
{ LANDS }	FIELD REVIEWED: No	RECOMMENDED BY: J.Morrell
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No Concerns		
{ ROADS }	FIELD REVIEWED: Yes	RECOMMENDED BY: T.Allio
SPECIALISTS NEEDED DURING LAYOUT: Hydrologist and Fisheries Biologist		
REMARKS: Reconstruction of route will require the crossing of Class I and II streams that require fish passage. Recommend a hydrological analysis following road location to determine bridge or drainage structure specifications. Provide for fish passage. Follow BMP guidelines for excavation, material placement and instream operations (timing) in fish streams.		
{ SOILS }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Huecker
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Segments 742.00 and 857.00 cross soils mapped as high hazard; notify Soil Scientist for field review if existing road shows signs of failure		
{ FISHERIES }	FIELD REVIEWED: No	RECOMMENDED BY: B.Lorenz
SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist		
REMARKS: Provide fish passage at fish streams as per BMP 14.17.		
{ HYDROLOGY }	FIELD REVIEWED: Yes	RECOMMENDED BY: D.Kelliher
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: None Provided		
{ WILDLIFE }	FIELD REVIEWED: No	RECOMMENDED BY: C.Hartmann
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ VISUALS }	FIELD REVIEWED: Yes	RECOMMENDED BY: E.Ouderkirk
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Within visual quality objective		
{ RECREATION }	FIELD REVIEWED: No	RECOMMENDED BY: B.Flynn
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ HERITAGE }	FIELD REVIEWED: Yes	RECOMMENDED BY: R.Myron
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Archeological survey completed for all portions of Road 7585 under 100 feet in elevation. No sites identified.		

NORTHWEST BARANOF PROJECT ROAD CARD

PLANNED ROAD ROUTE MAP

ROUTE NUMBER: 75851

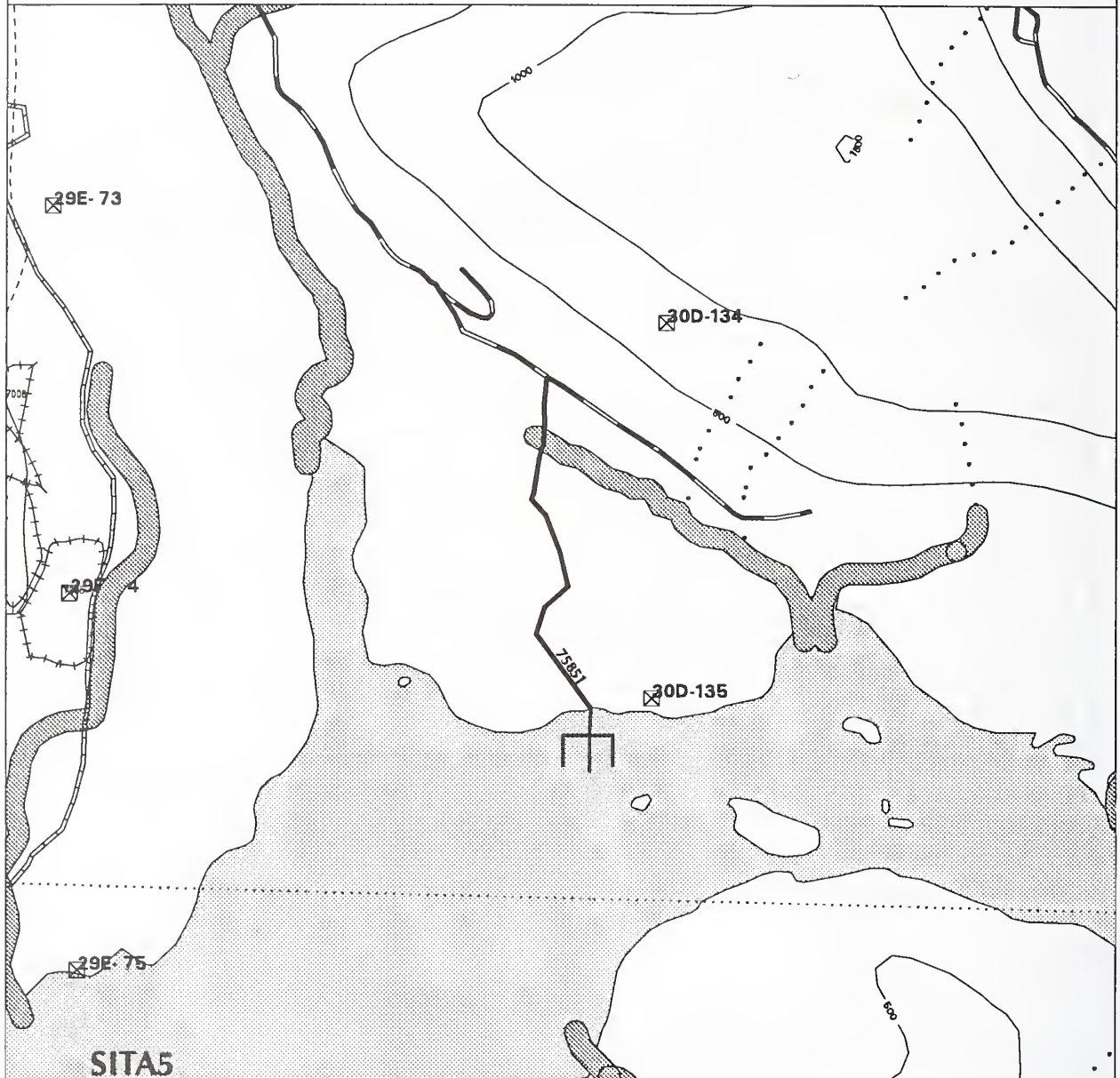
QUAD (S) : SITB5SE

Miles of existing road 0

VCU (S) : 300

Miles of proposed road 0.7

Total miles: 0.7



SITA5

LEGEND:

UNIT BOUNDARY

SUBJECT ROAD 75851

EXISTING ROAD

PLANNED ROAD

TEMPORARY ROAD

LOG TRANSFER FACILITY

4270

0 0.33 0.67 Miles

Map Scale 1:21120

CLASS III STREAM

CLASS II-NO BUFFER

CLASS I & II STREAM BUFFER

SHORELINE

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PHOTO POINT

EAGLE TREE

VCU line

QUAD line

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NORTHWEST BARANOF HARVEST ROAD CARD

VCU: 3000 ROAD NUMBER: 75851		
{ LANDS }	FIELD REVIEWED: No	RECOMMENDED BY: J.Morrell
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No Concerns		
{ ROADS }	FIELD REVIEWED: Yes	RECOMMENDED BY: T.Allio
SPECIALISTS NEEDED DURING LAYOUT: none		
REMARKS: Route begins at the proposed LTF site at Nakwasina Sound to Road 7585. Rock source available in small rise inland of the LTF site. Standard overlay, construction.		
{ SOILS }	FIELD REVIEWED: No	RECOMMENDED BY: B.Huecker
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No concerns identified from photo or GIS review		
{ FISHERIES }	FIELD REVIEWED: No	RECOMMENDED BY: B.Lorenz
SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist		
REMARKS: LTF design and operation as per BMP's 14.25, 14.26 and 14.27.		
{ HYDROLOGY }	FIELD REVIEWED: Yes	RECOMMENDED BY: D.Kelliher
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: None Provided		
{ WILDLIFE }	FIELD REVIEWED: No	RECOMMENDED BY: C.Hartmann
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ VISUALS }	FIELD REVIEWED: Yes	RECOMMENDED BY: E.Ouderkirk
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Within visual quality objective		
{ RECREATION }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Flynn
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: In LTF design and construction allow for easy postharvest loading and unloading of ORVs from a skiff. Allow for good skiff anchorage.		
{ HERITAGE }	FIELD REVIEWED: Yes	RECOMMENDED BY: R.Myron
SPECIALISTS NEEDED DURING LAYOUT: Archeologist		
REMARKS: Archeological survey completed for all portions of Road 75851 under 100 feet in elevation and for the proposed LTF location at the terminus of the road. No sites identified. An Archeologist should be notified at the final design stage for Road 75851 and for the LTF at the terminus of the road (Nakwasina). Working with other specialists, the Archeologist needs to confirm that nearby historic properties will not be damaged indirectly by project activity. Further Section 106 review required for onshore developments at distances greater than 100m from identified LTF and HILT locations; this includes any facilities, shore ties, or camps.		

NORTHWEST BARANOF PROJECT ROAD CARD

PLANNED ROAD ROUTE MAP

ROUTE NUMBER: 75882

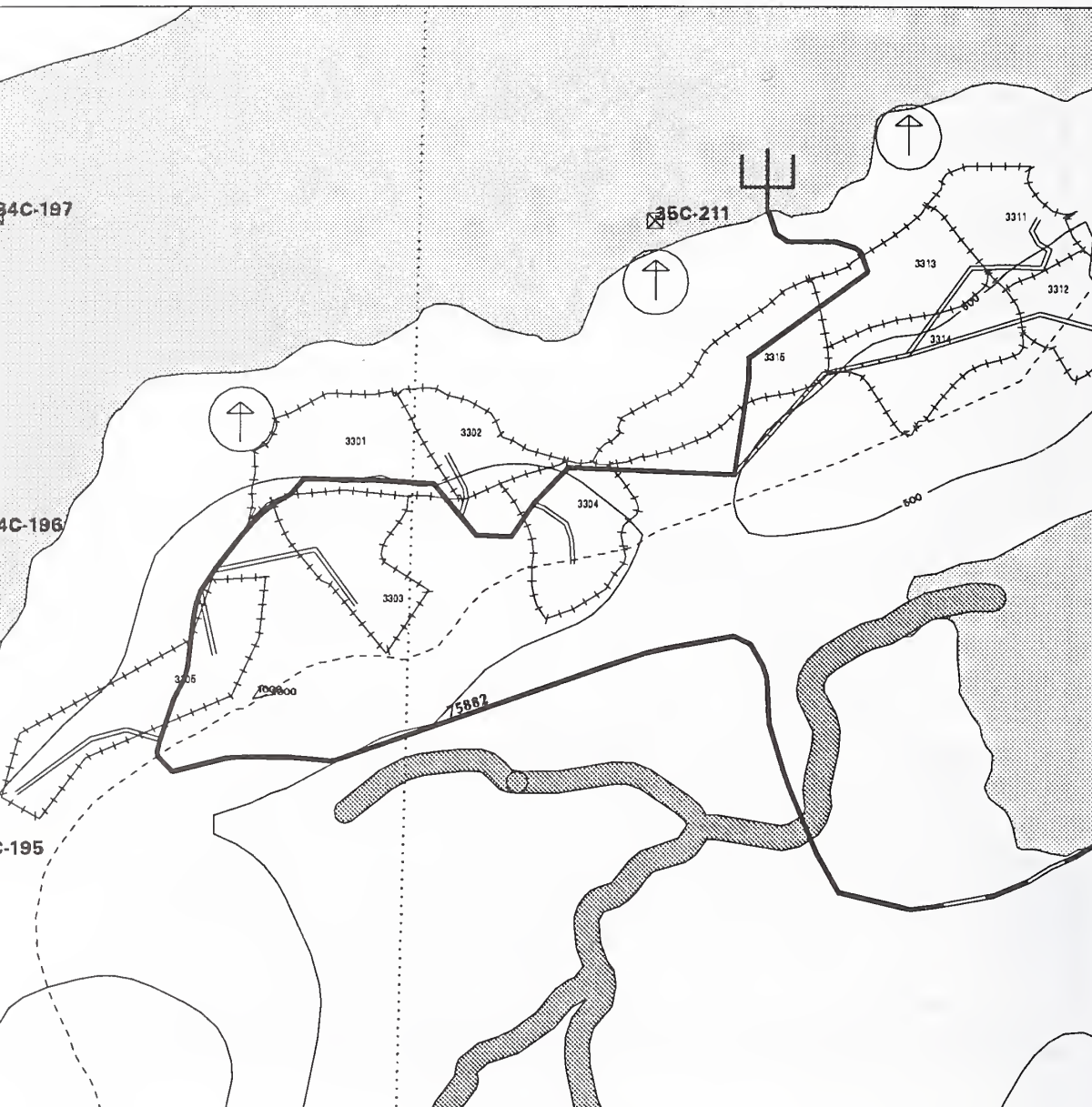
QUAD (S) : SITB4NW, SITB5NE

Miles of existing road 0

VCU (S) : 292, 293

Miles of proposed road 4.1

Total miles: 4.1



LEGEND:

500 FT CONTOUR INTERVAL

UNIT BOUNDARY



SUBJECT ROAD 75882



EXISTING ROAD



PLANNED ROAD



TEMPORARY ROAD



LOG TRANSFER FACILITY



CLASS III STREAM



CLASS II-NO BUFFER



CLASS I & II STREAM BUFFER



SHORELINE



PHOTO POINT



EAGLE TREE



VCU line



QUAD line

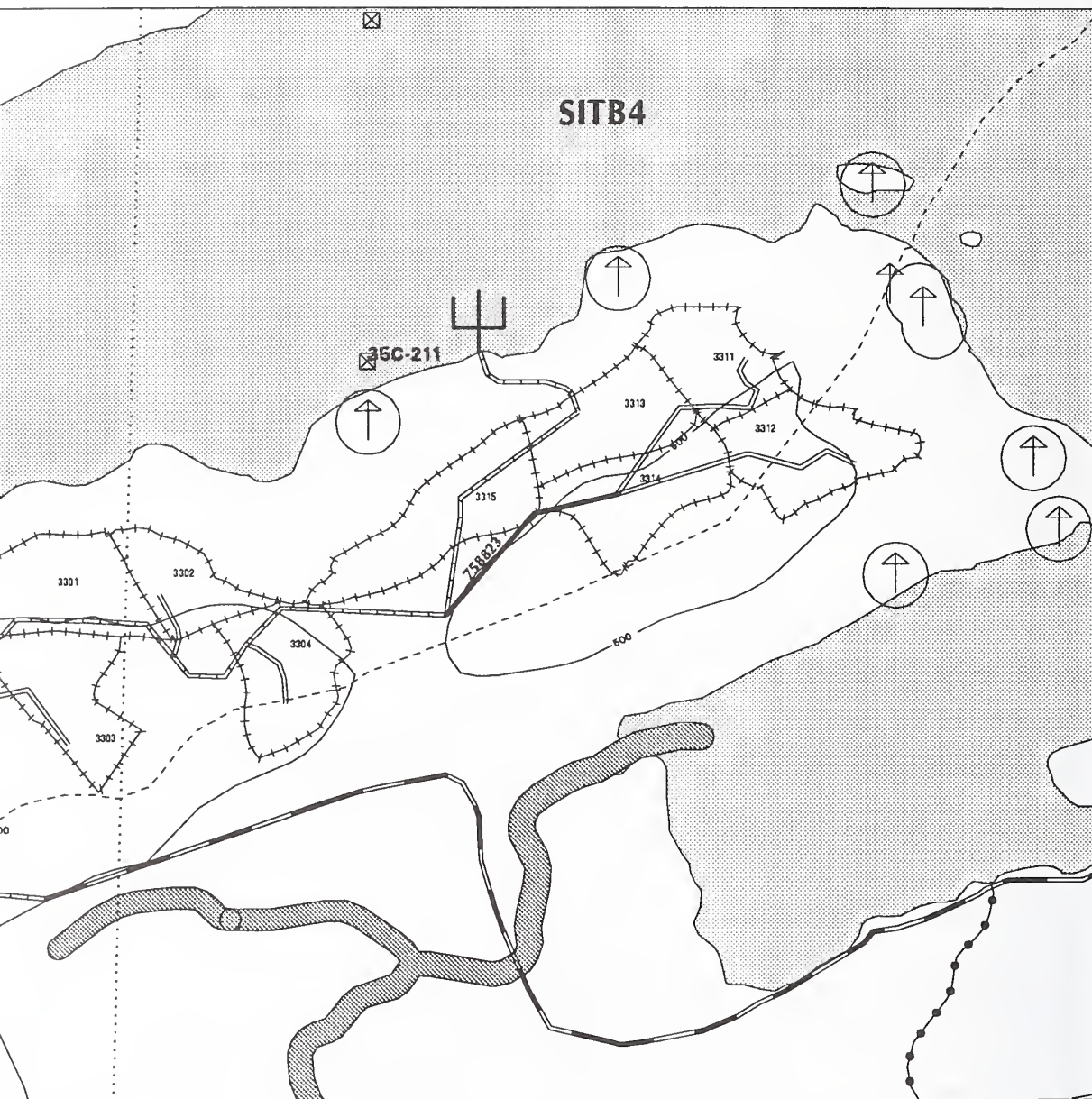


NORTHWEST BARANOF HARVEST ROAD CARD

VCU: 2920 ROAD NUMBER: 75882		
{ LANDS }	FIELD REVIEWED: No	RECOMMENDED BY: J.Morrell
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No Concerns		
{ ROADS }	FIELD REVIEWED: Yes	RECOMMENDED BY: T.Allio
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Class I stream crossing/reconstruction/LTF		
{ SOILS }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Huecker
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: High hazard soils mapped in segments 186.20 and 186.21; notify a Soil Scientist if problems are encountered during layout. Ensure Class I stream is protected during construction		
{ FISHERIES }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Lorenz
SPECIALISTS NEEDED DURING LAYOUT: Fisheries Biologist (for streamcourse protection plan)		
REMARKS: Road crosses small Class I fish stream within 200' of Rodman Bay LTF. Fish passage should be provided, and cross-drainage to a filter strip on north approach to this crossing (BMP 14.6, 14.14, 14.17). Several streams and tidal backwaters at head of Appleton Creek estuary are Class I fish streams that will need pipes sized and bedded for fish passage. Bridge footings for main Appleton Creek crossing have been heavily riprapped. When this road is closed at end of intended use, riprap and rock overlay should be removed from flood-plain down to adjacent terrain, to restore channel to original, unconfined surface (BMP 14.24).		
{ HYDROLOGY }	FIELD REVIEWED: Yes	RECOMMENDED BY: D.Kelliher
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: None Provided		
{ WILDLIFE }	FIELD REVIEWED: No	RECOMMENDED BY: C.Hartmann
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ VISUALS }	FIELD REVIEWED: Yes	RECOMMENDED BY: E.Ouderkirk
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Locate road to minimize visual impacts from key viewpoints. Locate and design rockpits to minimize visual impacts. Fully rehabilitate rock pit area. Retain screen trees. Apply grass seed and fertilizer to all cut and fill banks.		
{ RECREATION }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Flynn
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: In LTF design and construction allow for easy postharvest loading and unloading of ORVs from a skiff. Allow for good skiff anchorage.		
{ HERITAGE }	FIELD REVIEWED: Yes	RECOMMENDED BY: R.Myron
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Archeological survey completed for all portions of Road 75882 under 100 feet in elevation and for the proposed LTF site at the terminus of Road 75882. No sites identified. Further Section 106 review required for on-shore developments at distances greater than 100m from identified LTF and HILT locations; this includes any facilities, shore ties, or camps.		

PLANNED ROAD ROUTE MAP

Total miles: 0.4



500 FT CONTOUR INTERVAL

4270

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0 0.33 0.67 Miles

0 0.33 0.67 Miles

0 0.33 0.67 Miles

Map Scale 1:21120

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NORTHWEST BARANOF HARVEST ROAD CARD

VCU: 2920 ROAD NUMBER: 758823		
{ LANDS }	FIELD REVIEWED: No	RECOMMENDED BY: J.Morrell
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No Concerns		
{ ROADS }	FIELD REVIEWED: Yes	RECOMMENDED BY: T.Allio
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No Concerns		
{ SOILS }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Huecker
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Full bench construction recommended for part of seg. 186.30		
{ FISHERIES }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Lorenz
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No fisheries concerns		
{ HYDROLOGY }	FIELD REVIEWED: Yes	RECOMMENDED BY: D.Kelliher
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: None Provided		
{ WILDLIFE }	FIELD REVIEWED: No	RECOMMENDED BY: C.Hartmann
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ VISUALS }	FIELD REVIEWED: Yes	RECOMMENDED BY: E.Ouderkirk
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Within visual quality objective		
{ RECREATION }	FIELD REVIEWED: No	RECOMMENDED BY: B.Flynn
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ HERITAGE }	FIELD REVIEWED: No	RECOMMENDED BY: R.Myron
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Low probability area		

NORTHWEST BARANOF PROJECT ROAD CARD

PLANNED ROAD ROUTE MAP

ROUTE NUMBER: 7722W

QUAD (S) : SITB4NW

Miles of existing road 1.1

VCU (S) : 293

Miles of proposed road 0

Total miles: 1.1



LEGEND:

UNIT BOUNDARY

SUBJECT ROAD 7722W

EXISTING ROAD

PLANNED ROAD

TEMPORARY ROAD

LOG TRANSFER FACILITY

4270

0 0.33 0.67 Miles

Map Scale 1:21120

CLASS III STREAM

CLASS II-NO BUFFER

CLASS I & II STREAM BUFFER

SHORELINE

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PHOTO POINT

EAGLE TREE

VCU line

QUAD line

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NORTHWEST BARANOF HARVEST ROAD CARD

VCU: 2930 ROAD NUMBER: 7722W		
{ LANDS }	FIELD REVIEWED: No	RECOMMENDED BY: J.Morrell
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No Concerns		
{ ROADS }	FIELD REVIEWED: No	RECOMMENDED BY: T.Allio
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: None Provided		
{ SOILS }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Huecker
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No problems were identified; notify a Soil Scientist if potential soils problems are identified during layout.		
{ FISHERIES }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Lorenz
SPECIALISTS NEEDED DURING LAYOUT: None Needed if Road Remains Open		
REMARKS: There are many low-gradient Class I fish streams on the estuary that have limited ability to flush sediment. Maintain fish passage at all existing culverts, and direct road maintenance and snow-removal operations near streams with the objective to minimize sediment introduction (BMP 14.23). Fish passage at a stream just south of the Anderson Island causeway (existing 48" CMP) will be possible only at high tides due to stream gradient.		
{ HYDROLOGY }	FIELD REVIEWED: Yes	RECOMMENDED BY: D.Kelliher
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: None Provided		
{ WILDLIFE }	FIELD REVIEWED: No	RECOMMENDED BY: C.Hartmann
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ VISUALS }	FIELD REVIEWED: Yes	RECOMMENDED BY: E.Onderkirk
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Within visual quality objective		
{ RECREATION }	FIELD REVIEWED: No	RECOMMENDED BY: B.Flynn
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ HERITAGE }	FIELD REVIEWED: No	RECOMMENDED BY: R.Myron
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Low probability area		

NORTHWEST BARANOF PROJECT ROAD CARD

PLANNED ROAD ROUTE MAP

ROUTE NUMBER: 7728

QUAD (S) : SITB4NW

Miles of existing road 0.3

VCU (S) : 293

Miles of proposed road 0

Total miles: 0.3



LEGEND:

UNIT BOUNDARY

SUBJECT ROAD 7728

EXISTING ROAD

PLANNED ROAD

TEMPORARY ROAD

LOG TRANSFER FACILITY

4270

500 FT CONTOUR INTERVAL

0 0.33 0.67 Miles

Map Scale 1:21120

CLASS III STREAM

CLASS II-NO BUFFER

CLASS I & II STREAM BUFFER

SHORELINE

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PHOTO POINT

EAGLE TREE

VCU line

QUAD line

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NORTHWEST BARANOF HARVEST ROAD CARD

VCU: 2930 ROAD NUMBER: 7728		
{ LANDS }	FIELD REVIEWED: No	RECOMMENDED BY: J.Morrell
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No Concerns		
{ ROADS }	FIELD REVIEWED: No	RECOMMENDED BY: T.Allio
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: None Provided		
{ SOILS }	FIELD REVIEWED: No	RECOMMENDED BY: B.Huecker
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: None Provided		
{ FISHERIES }	FIELD REVIEWED: Yes	RECOMMENDED BY: B.Lorenz
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: The LTF, sort yard and a barge off-loading area near the dock facility need regular maintenance to control surface erosion and sedimentation (BMP 14.25, 14.26, 14.27). Anderson Island topography and vegetation provide opportunities to route runoff to filter strips to prevent sediments from entering estuary.		
{ HYDROLOGY }	FIELD REVIEWED: Yes	RECOMMENDED BY: D.Kelliher
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: None Provided		
{ WILDLIFE }	FIELD REVIEWED: No	RECOMMENDED BY: C.Hartmann
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ VISUALS }	FIELD REVIEWED: Yes	RECOMMENDED BY: E.Onderkirk
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Within visual quality objective		
{ RECREATION }	FIELD REVIEWED: No	RECOMMENDED BY: B.Flynn
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: No specific concerns		
{ HERITAGE }	FIELD REVIEWED: No	RECOMMENDED BY: R.Myron
SPECIALISTS NEEDED DURING LAYOUT: None Needed		
REMARKS: Low probability area		



Appendix P

Silvicultural Diagnoses

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 1061 of the NW Baranof Timber Sale

STAND # 80,84,85 VCU 291 MANAGEMENT AREA C41
96

ACRES 60 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1989 Flight Line 33C Photo #'s 130
Scale: 1:12000
1/4 Quad ID: Sitka C5SE

SITE CHARACTERISTICS:

Elevation: 1100 to 1600 ft. Aspect: SE to Slope: 50 to 80+ %
Landform: Smooth, infrequently to frequently dissected, shallowly incised
mountainslopes; broken mountainslopes and hillslopes
Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 90
Soil: 3221D, 3238D, 3517D, 3635D
Parent Material: Colluvium, residuum, volcanic ash
Soil Depth in: 15-60 Soil Texture/Drainage: Moderately well to well
drained silt loams and sandy loams.

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-4-94
Stand History: Wind and small slide processes are primary disturbance agents
Potential Windthrow Hazard: Moderate
Damaging Agents: Moderate decay, with pini and pinicola conks present. No evi-
dence of fluting or mistletoe.
Species Composition (trees 5+" DBH): 90 %WH %MH %AC 10 %SS
Stand Structure: Uneven-aged stand with 3 canopy layers. Scattered large deca-
dent dominants, with more vigorous codominants. Intermediates variable in form.
Ave. Height: 115-120 ft. Basal Area: 400 sq.ft. Ave. Age: 250+ yr.
Ave. DBH (trees 5+" DBH): 22-24 in. Ave. TPA (trees 5+" DBH):
Ground Cover: 30-65% vaccinium, <5-5% rusty. Vaccinium height 1-2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 1734 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit contains oversteepened and unstable soils.
Unmapped fish channel bisects NE half of unit.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 291 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Duffield Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of unstable and oversteepened soils.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Seed tree cut not considered due to lack of cedar component and no foreseen problem with natural regeneration. Overstory removal not considered due to lack of stocked and manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration. Clearcut/reserves will not meet landscape goal of high canopy retention in drainage, though it is feasible for regenerating stand. Group selection best meets landscape and unit objectives, and gives good flexibility in managing adjacent areas not considered for harvest with this project, from a broader landscape perspective.

RECOMMENDED TREATMENT:

Recommended treatment is group selection. This will result in a multi-storied, multi-aged stand with high canopy retention. Harvest up to 20% of unit in groups up to 1-2 acres in size this entry; plan for cutting cycle of 40-50 years with up to 20% removal each cutting cycle. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 09/ 20/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 09/ 20/ 95

UNIT # 1065 of the NW Baranof Timber SaleSTAND # 83,84 VCU 291 MANAGEMENT AREA C41ACRES 8 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1989 Flight Line 33C Photo #'s 130
Scale: 1:12000
1/4 Quad ID: Sitka C5SE

SITE CHARACTERISTICS:

Elevation: 400 to 1000 ft. Aspect: SE to S Slope: 45 to 80 %
Landform: Smooth, frequently to infrequently dissected, shallowly incised
mountainslopes
Plant Association: Western hemlock-Alaska yellow cedar/blueberry

Site Index (Farr 50 yr.): 100
Soil: 3221D, 3517D
Parent Material: Colluvium, residuum, volcanic ash
Soil Depth in: > 40 Soil Texture/Drainage: Moderately well to well
drained silt loams

Potential of Mass Failure: ModerateSTAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-4-94
Stand History: Wind and small slide processes are primary disturbance agents
Potential Windthrow Hazard: Moderate
Damaging Agents: Moderate decay. No evidence of fluting or mistletoe. No cedar
decline noted.
Species Composition (trees 5+" DBH): 20-25 %WH %MH 75-80 %AC %SS
Stand Structure: Uneven aged stand with 3 canopy layers. Dominants decadent,
codominants better form/vigor. Intermediates vigorous in gaps, poor under shade
Ave. Height: 100-110 ft. Basal Area: 360 sq.ft. Ave. Age: 250+ yr.
Ave. DBH (trees 5+" DBH): 18-20 in. Ave. TPA (trees 5+" DBH):
Ground Cover: 50-90% vaccinium, <5-10% rusty and devil's club. Vaccinium height
3-4 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 239 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit contains oversteepened and unstable soils.
Ensure areas of cliffs avoided during layout.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 291 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Duffield Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of unstable and oversteepened soils. Retain cedar across landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of stocked and manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade-tolerant species. Group selection not considered due to anticipated lack of cedar regeneration with this method. Clearcut/reserves is a feasible treatment, but will likely not result in adequate cedar regeneration. Seed tree cut best meets landscape and unit objective of ensuring cedar remains a component in regenerating stand. Objective of high canopy retention will not be met with either clearcut/reserves or seed tree cut.

RECOMMENDED TREATMENT:

Seed tree cut for cedar regeneration. Retain up to 12-14 cedar seed trees per acre, either scattered through the unit or left in small groups in the unit. Narrow ridges between close v-notches may present opportunities for leaving groups of seed trees. Orient leave trees to minimize blowdown risk, where possible to do so.

Prepared By: William R. DouganDate: 09/ 20/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 09/ 20/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 1071 of the NW Baranof Timber Sale

STAND # 15,81,85 VCU 291 MANAGEMENT AREA C41

ACRES 24 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1989 Flight Line 32C Photo #'s 122

Scale: 1:12000

1/4 Quad ID: Sitka C5SE

SITE CHARACTERISTICS:

Elevation: 800 to 1400 ft. Aspect: SE to Slope: 50 to 75 %

Landform: Smooth, frequently dissected shallowly to deeply incised mountain-slopes

Plant Association: Western hemlock/blueberry on lower slopes; mountain hemlock/blueberry on upper slopes

Site Index (Farr 50 yr.): 93

Soil: 3125D, 3238D

Parent Material: Colluvium, residuum

Soil Depth in: <20-40+ Soil Texture/Drainage: Somewhat poorly drained to well drained sandy and silt loams.

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-30-94

Stand History: Wind and small slide processes are primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate to high decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 70 %WH <5-5 %MH %AC 25-30%SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants highly defective, scattered, codominant hemlock poor vigor. Intermediates ok in gaps.

Ave. Height: 105-115 ft. Basal Area: 280 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 20 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 30-60% vaccinium, <5-10% rusty. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 697 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Wet soils present. Place SW and NE boundaries on stable sideslopes, above slope break, and maintain a vegetative filter strip between unit and the Class III channels.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 291 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Duffield Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of wet soils. Encourage tree species diversity through retention of spruce component.

TREATMENT ALTERNATIVES TO MEET DESIRED FUTURE CONDITION:

Potential treatments include clearcut with reserves, seed tree cut, and group selection. Overstory removal not considered due to lack of manageable under-story. Clearcut with reserves will not meet goals of canopy retention and tree species diversity, though it is a feasible treatment. Group selection will meet goal of high canopy retention, but will likely not retain spruce as a major component in the future stand. It is a feasible treatment. Seed tree cut will not meet the goal of high canopy retention; it will meet the goal of providing for Sitka spruce in the future stand through retention of spruce seed trees for both seed sources and as a future stand component.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. This will likely result in retention of spruce as well as vertical stand diversity through retention of seed trees. Retain up to 12 spruce/acre, spaced throughout unit. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 10/ 26/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 10/ 26/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 1072 of the NW Baranof Timber Sale

STAND # 15,81 VCU 291 MANAGEMENT AREA C41

ACRES 14 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1989 Flight Line 32C Photo #'s 122

Scale: 1:12000

1/4 Quad ID: Sitka C5SE

SITE CHARACTERISTICS:

Elevation: 400 to 600 ft. Aspect: SE to _____ Slope: 40 to 55 %
Landform: Smooth, frequently dissected, deeply incised mountainslopes

Plant Association: Western hemlock-Alaska yellow cedar/blueberry and Western hemlock-Alaska yellow cedar/blueberry/skunk cabbage

Site Index (Farr 50 yr.): 95

Soil: 3125D

Parent Material: Colluvium, residuum

Soil Depth in: <20-40+ Soil Texture/Drainage: Moderately well drained to well drained silt loams and sandy loams

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-30-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Low to moderate decay. No fluting or mistletoe noted. No cedar decline noted.

Species Composition (trees 5+" DBH): 30-35 %WH _____ %MH 55-60 %AC 5-15 %SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants large hemlock, mostly on upper slope; codoms. mostly cedar, more prominent on lower areas

Ave. Height: 95-105ft. Basal Area: 360 sq.ft. Ave. Age: 150-200yr.

Ave. DBH (trees 5+" DBH): 12-14in. Ave. TPA (trees 5+" DBH): _____

Ground Cover: 45-75% vaccinium, <5-10% rusty, <5% skunk cabbage. Vaccinium height is 2-3 ft.

Total Net Sawlog Vol/Acre: _____ MBF Total Unit Vol: 358 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit contains v-notches and some steep areas. Place unit boundaries on stable sideslopes above slope break, and maintain a vegetative filter strip between unit and Class III channels.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 291 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Duffield Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of oversteepened and unstable soils. Retain cedar as a component in future stand.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut with reserves, seed tree cut and overstory removal. Group selection not considered due to poor vigor and small size of stand. Shelterwood not considered due to lack of need for understory protection/regeneration. Clearcut with reserves will not meet landscape goal of high canopy retention, though it is feasible for regenerating the stand. Seed tree cut will not meet goal of high canopy retention, though it is feasible for regenerating cedar component. Overstory removal will meet goal of moderate canopy retention, and will retain a portion of existing cedar component in the future stand.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees less than 14" DBH. Protect non-merchantable cedar to extent possible. Helicopter yard. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. DouganDate: 10/ 26/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 10/ 26/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 1131 of the NW Baranof Timber Sale

STAND #108,109,112 VCU 291 MANAGEMENT AREA C41

ACRES 18 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 34 Photo #'s 200
Scale: 1:12000
1/4 Quad ID: Sitka C5SE

SITE CHARACTERISTICS:

Elevation: 300 to 1000 ft. Aspect: W to SW Slope: 30 to 50 %
Landform: Smooth, infrequently dissected mountainslopes and broken mountain-
slopes and hillslopes
Plant Association: Mixed conifer/blueberry

Site Index (Farr 50 yr.): 67
Soil: 3521D, 3643C, 3647C
Parent Material: Colluvium, residuum, and decomposed sedge/sphagnum over till
Soil Depth in: <14 to 40+ Soil Texture/Drainage: Poorly drained to well
drained silt loams and mucky silt loams
Potential of Mass Failure: Low

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-3-94
Stand History: Wind processes are the primary disturbance agent
Potential Windthrow Hazard: Moderate
Damaging Agents: Moderate decay. No fluting or mistletoe noted. Light cedar
decline.
Species Composition (trees 5+\" DBH): 10 %WH 10 %MH 80 %AC %SS
Stand Structure: Uneven aged stand with 3 canopy layers. Open stand, overstory
not vigorous. Primarily pole sizes to 20\" DBH.
Ave. Height: 90-95 ft. Basal Area: 360 sq.ft. Ave. Age: 250+ yr.
Ave. DBH (trees 5+\" DBH): 14-16in. Ave. TPA (trees 5+\" DBH):
Ground Cover: 60-100% vaccinium, 5-10% rusty. Vaccinium height 3-4 ft.

Total Net Sawlog Vol/Acre: _____ MBF Total Unit Vol: 491 MBF
NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit contains areas of wet soils and seeps.
Small channels/swales throughout unit. Unit boundary needs to be located above
slope break of large notches.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 291 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Duffield Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of wet soils. Retain cedar as a component in future stand.

TREATMENT ALTERNATIVES TO MEET DESIRED FUTURE CONDITION:

Potential treatments include clearcut with reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration for shade-tolerant species. Group selection not considered due to decadence/vigor of stand. Clearcut with reserves will not meet goal of high canopy retention but is feasible for regeneration. Seed tree cut will not meet canopy retention goals, but is feasible for regeneration of cedar. It offers the best flexibility for ensuring cedar remains a component in the resulting stand.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain 10-12 cedar seed trees per acre in small groups located through the unit. To the extent possible, make these groups windfirm, to minimize blowdown. Protect advanced regeneration and non-merchantable intermediates to the extent possible. This will result in a multi-storied stand (2-3 canopy layers). Retain seed trees through the next rotation. Helicopter yard.

Prepared By: William R. DouganDate: 11/ 07/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 07/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 1144 of the NW Baranof Timber SaleSTAND # 138,159,162
340,346,354VCU 291
292MANAGEMENT AREA C41ACRES 11 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1987 Flight Line 35 Photo #'s 208Scale: 1:120001/4 Quad ID: Sitka C4SWSITE CHARACTERISTICS:Elevation: 700 to 1150 ft. Aspect: E to NE Slope: 15 to 50 %
Landform: Smooth, frequently dissected, shallow incised mountainslopes to broken mountainslopes and hillslopes.Plant Association: Western hemlock/blueberry/skunk cabbageSite Index (Farr 50 yr.): 78Soil: 3221D, 3643BParent Material: Colluvium and residuum, decomposed organics over compact till.Soil Depth in: <14 - 40+ Soil Texture/Drainage: Deep, well drained mineral soils; shallow, poorly drained organic soils overlying shallow mineral soils underlain by compact till.Potential of Mass Failure: Moderate to highSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 9-23-93Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: ModerateDamaging Agents: Low to moderate decay. No fluting noted. Light mistletoe noted. Pini and pinicola present.Species Composition (trees 5+\" DBH): 67 %WH %MH %AC 33 %SSStand Structure: Mosaic of stand structures with 3 canopy levels. Dominants scattered; codoms. vary in vigor; intermediates well stocked, vary in form.Ave. Height: 90 ft. Basal Area: 240 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+\" DBH): 20 in. Ave. TPA (trees 5+\" DBH): Ground Cover: 1% rusty menziesia, 70% vaccinium. Vaccinium height 1 ft.Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 287 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Helicopter yarding required due to uneconomical road access. Portions of unit may have stability problems - soil scientist should be present during layout.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU's 291 and 291 have been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in areas adjacent to existing large openings in Rodman Bay area to mitigate visual concerns. Maintain travel corridors for wildlife between the ridge and beach. Protect areas of unstable soils.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut with reserves and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration. Group selection not considered due to heavy mistletoe and likelihood of continuing infection in stand. Seed tree cut not considered due to lack of cedar component in stand and lack of need for favoring cedar. Clearcut with reserves will not meet goals of moderate to high canopy retention, and will not address visual concerns. It is feasible for regenerating stand. Overstory removal best meets goals of canopy retention for visual concerns as well as maintaining some cover for wildlife travel corridors.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees less than 16" in diameter. Remove mistletoe-infected trees with heavy infections to the extent possible. Protect advanced regeneration during falling/yarding. Helicopter yard. Rely on natural regeneration to fill in gaps. This will result in a moderate canopy retention with good vertical and horizontal structure, which will soften visual impacts along the ferry route.

Prepared By: William R. DouganDate: 11/ 07/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 07/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 1145 of the NW Baranof Timber SaleSTAND #340, 354 VCU 292 MANAGEMENT AREA C41ACRES 83 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1987 Flight Line 36 Photo #'s 82Scale: 1:120001/4 Quad ID: Sitka C4SWSITE CHARACTERISTICS:

Elevation: 100 to 1200 ft. Aspect: E to SE Slope: 20 to 30 %
Landform: Smooth, frequently dissected, shallow incised mountainslopes to broken mountainslopes and hillslopes.

Plant Association: Western hemlock-Alaska yellow cedar/blueberrySite Index (Farr 50 yr.): 93Soil: 3225E, 3258D, 3621D, 3643B, 3658DParent Material: Colluvium and residuum, compact till, sedge and sphagnum.

Soil Depth in: <20 - 40+ Soil Texture/Drainage: Shallow, somewhat poorly drained mineral soil overlying compact till; deep, well drained mineral soil; shallow, poorly drained organic soils over mineral soils and compact till.

Potential of Mass Failure: Moderate to highSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 9-23-93Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: Moderate to high

Damaging Agents: Low to moderate decay. No fluting noted. Light mistletoe noted. Pini present. Light cedar decline evident.

Species Composition (trees 5+" DBH): 20 %WH 60 %MH 20 %AC 20 %SS

Stand Structure: Uneven-aged stand with three canopy layers. Dominants scattered, defective; codoms. more vigorous; intermediates vary in form, vigor.

Ave. Height: 90-105ft. Basal Area: 200 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+" DBH): 20-22in. Ave. TPA (trees 5+" DBH): Ground Cover: 40% rusty menziesia, 90% vaccinium. Vaccinium height 2 ft.Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 2447 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required due to uneconomical road access. Locate lower unit boundary above deeply incised v-notches along NE side of unit. Unit as planned does not meet visual quality objectives; adjust boundary to reduce apparent size and screen harvested ground. Unit not field reviewed for soils; soil scientist recommended during layout.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible adjacent to previously harvested units. Maintain travel corridors for wildlife between ridge and beach. Minimize negative visual impacts along ferry route, to the extent possible. Maintain cedar as a component in the stand.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut with reserves and seed tree cut. Group selection not considered due to likelihood of poor cedar regeneration with this method. Shelterwood not considered due to lack of need for understory protection/regeneration for shade tolerant species. Overstory removal not considered due to lack of manageable understory. Clearcut with reserves will not meet canopy retention, travel corridor, and visual goals, though it is favorable for regenerating stand. Seed tree cut will not meet canopy retention, travel corridor and visual goals, though it is favorable for cedar regeneration.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain 10-12 cedar trees per acre, in windfirm groups wherever possible, to minimize likelihood of blowdown. Retain seed trees through next rotation. This will provide structure as well as some visual contrast along ferry route. Rely on natural regeneration. If cedar does not regenerate adequately, consider planting cedar. Helicopter yard.

Prepared By: William R. DouganDate: 11/ 08/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 08/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 1146 of the NW Baranof Timber Sale

STAND #340,354 VCU 292 MANAGEMENT AREA C41

ACRES 15 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1987 Flight Line 35 Photo #'s 208

Scale: 1:12000

1/4 Quad ID: Sitka C4SW

SITE CHARACTERISTICS:

Elevation: 1000 to 1300 ft. Aspect: N to E Slope: 25 to 30 %
Landform: Broken mountainslopes and hillslopes.

Plant Association: Mountain hemlock/blueberry and Western hemlock/blueberry/
shield fern

Site Index (Farr 50 yr.): 79

Soil: 3658D, 3670C

Parent Material: Compact till, colluvium and residuum, decomposed organics.

Soil Depth in: <20 Soil Texture/Drainage: Shallow, somewhat poorly to
well drained mineral soils overlying bedrock or compact till; shallow, very
poorly drained organic soils.

Potential of Mass Failure: Low to high

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 9-23-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate to high

Damaging Agents: Moderate decay. No fluting noted. Mistletoe noted, though
minor infection. Pini and pinicola present.

Species Composition (trees 5+\" DBH): 90 %WH 10 %MH %AC %SS

Stand Structure: Mosaic stand structure with 3 canopy layers. Dominants declin-
ing; codoms. declining; intermediates vary in form and vigor.

Ave. Height: 80-90 ft. Basal Area: 240 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 18-22in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 2% rusty menziesia, 80% vaccinium cover. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 419 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Soils not field reviewed, but unit appears to
contain old slides; soil scientist should be present during layout. Unit as
planned does not meet visual quality objective. Adjust boundary to reduce
apparent size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible adjacent to previously harvested units. Maintain travel corridors for wildlife between ridge and beach. Minimize negative visual impacts along ferry route, to the extent possible. Provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of unstable soils.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but decadence of stand makes long-term management economics marginal. Clearcut/reserves will meet regeneration needs but will not meet canopy retention, wildlife travel corridor and visual objectives.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut with reserves. Retain a minimum of 2 snags per acre around edges of unit or in lower unit for wildlife. In addition, mark windfirm groups of live trees (primarily live cull, wherever possible) between yarding corridors to be retained in the future stand for vertical/horizontal structure and as a source of future snags. Retain up to 6 trees per acre in these groups. Favor hemlock/spruce over cedar in selection of leave trees.

Prepared By: William R. DouganDate: 11/ 08/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 08/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 1147 of the NW Baranof Timber SaleSTAND #340,354VCU 292MANAGEMENT AREA C41ACRES 17 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1987 Flight Line 36 Photo #'s 82Scale: 1:120001/4 Quad ID: Sitka C4SWSITE CHARACTERISTICS:Elevation: 800 to 1300 ft. Aspect: E to SE Slope: 15 to 25 %
Landform: Smooth, frequently dissected, shallow incised mountainslopes to broken mountainslopes and hillslopes.Plant Association: Sitka spruce/blueberrySite Index (Farr 50 yr.): 90Soil: 3225E, 3658DParent Material: Colluvium and residuum, compact till.Soil Depth in: <20 - 40+ Soil Texture/Drainage: Shallow to deep, well drained mineral soil; shallow, somewhat poorly drained mineral soil over compact till.Potential of Mass Failure: ModerateSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 9-23-93Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: ModerateDamaging Agents: Moderate amount of decay, Pini conks present in the stand.

No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 70 %WH %MH %AC 30 %SSStand Structure: Uneven-aged stand with three canopy layers. Dominant spruce with good vigor; codoms. with good form; intermediates vary in form and vigor.Ave. Height: 90-100ft. Basal Area: 360sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+\" DBH): 22-24in. Ave. TPA (trees 5+\" DBH): Ground Cover: 1% rusty menziesia, 60% vaccinium. Vaccinium height 1 ft.Total Net Sawlog Vol/Acre: MBFTotal Unit Vol: 493 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Helicopter yarding required. Unit is dissected and contains slides, slumps and some wet soils. Soil scientist recommended during layout. Temporary spur drainage structures will be removed and road bed seeded following harvest. No visual concerns.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 291 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in areas adjacent to existing large openings in Rodman Bay area to mitigate visual concerns. Maintain travel corridors for wildlife between the ridge and beach. Protect areas of unstable soils.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut with reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar in stand. Clearcut with reserves will not meet goals of canopy retention, travel corridors, and protection of unstable soils in unit, though it is feasible for regenerating stand. Group selection best meets goals of retaining heavy canopy and providing for wildlife travel corridors, while offering protection to areas of unstable soils.

RECOMMENDED TREATMENT:

Recommended treatment is group selection. This will result in a multi-storied, multi-aged stand with high canopy retention. Harvest up to 20% of unit in groups up to 1-2 acres in size this entry; plan for cutting cycle of 40-50 years with up to 20% removal each cutting cycle. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. Dougan

Date: 11/ 08/ 95

Certified By: William R. Dougan
Certified Silviculturist

Date: 11/ 08/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 1171 of the NW Baranof Timber Sale

STAND #108,57,59, VCU 291 MANAGEMENT AREA C41
230

ACRES 30 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 33 Photo #'s 188
Scale: 1:12000
1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 400 to 1200 ft. Aspect: NW to NW Slope: 40 to 65 %
Landform: Smooth, infrequently dissected mountainslopes to broken mountainslopes and hillslopes.
Plant Association: Western hemlock - yellow cedar/blueberry

Site Index (Farr 50 yr.): 89
Soil: 3521D, 3547C, 3625E, 3670C
Parent Material: Colluvium and residuum, compact till, decomposed organics.
Soil Depth in: <20 - 40+ Soil Texture/Drainage: Deep, well drained mineral soil; shallow somewhat poorly to well drained mineral soil; shallow, very poorly drained organic soils.
Potential of Mass Failure: Low to high

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 9-13-93
Stand History: Wind and small slide processes are the primary disturbance agents
Potential Windthrow Hazard: Low
Damaging Agents: Low to moderate amount of decay in the stand. No fluting or mistletoe noted. No cedar decline noted.
Species Composition (trees 5+ " DBH): 70 %WH %MH 30 %AC %SS
Stand Structure: Uneven-aged stand with three canopy layers. Dominants decadent and defective; codoms. with good form; intermediates variable in form and vigor.
Ave. Height: 115-120ft Basal Area: 280 sq.ft. Ave. Age: 250+ yr.
Ave. DBH (trees 5+ " DBH): 18-20in. Ave. TPA (trees 5+ " DBH):
Ground Cover: 35-75% vaccinium, <5-10% rusty and devil's club. Vaccinium height 3-4 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 857 MBF
NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Fish habitat may reach the lower unit boundary on a stream flowing out of the NW corner. Mapped Class III channel flowing adjacent to upper third of unit requires a stream buffer. No visual concerns. Directional falling away from v-notches recommended.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 291 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Duffield Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of v-notches. Retain cedar remains a component across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to need to retain cedar component in stand. Clearcut/reserves will not meet canopy retention goals, and will likely not result in good cedar regeneration, though it is feasible for regenerating stand. Seed tree cut will not meet canopy retention goal, but will provide for cedar regeneration, and will help in protection of v-notches through retention of groups along notches.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain 10-12 cedar trees per acre, either scattered through the unit or left in small groups in the unit. Narrow ridges between close v-notches may present opportunities for leaving groups of seed trees. Orient trees to minimize blowdown risk, where possible to do so. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 08/ 95Certified By: William R. DouganDate: 11/ 08/ 95

Certified Silviculturist

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 1172 of the NW Baranof Timber Sale

STAND #64,108 VCU 291 MANAGEMENT AREA C41

ACRES 54 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 33 Photo #'s 188

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 500 to 800 ft. Aspect: NW to NW Slope: 30 to 65 %
Landform: Smooth, infrequently dissected mountainslope to mountainslope ravine.

Plant Association: Western hemlock - yellow cedar/blueberry and mixed conifer/blueberry.

Site Index (Farr 50 yr.): 81

Soil: 3521D, 3547C, 3779E

Parent Material: Colluvium and residuum, compact till, organics.

Soil Depth in: <10 - 40+ Soil Texture/Drainage: Deep, well drained mineral soil; shallow, somewhat poorly drained mineral soils overlying compact till; very shallow, well drained organic soil.

Potential of Mass Failure: Moderate to extreme

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 9-13-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Low

Damaging Agents: Moderate amounts of decay. No fluting or mistletoe noted. No cedar decline noted.

Species Composition (trees 5+\" DBH): 33 %WH %MH 67 %AC %SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Dominants decadent; codoms. vary in vigor, with cedar better than hemlock; intermed. best in gaps.

Ave. Height: 105-115ft Basal Area: 240 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 16-18in. Ave. TPA (trees 5+\" DBH):

Ground Cover: <5-10% rusty and devil's club, 60-90% vaccinium. Height of vac-
cinium 3-4 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 1394 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit is dissected, recommend directional falling away from v-notches. Fish habitat may reach the lower unit boundary on an alluvial fan channel that flows from the NW corner. No visual concerns.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 291 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Duffield Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect dissected v-notches. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to anticipated lack of cedar regeneration with this method. Clearcut/reserves is a feasible treatment, but will likely not result in adequate cedar regeneration. Seed tree cut best meets objective of ensuring cedar remains a component in regenerating stand. Objective of high canopy retention will not be met.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar trees per acre as seed trees, either scattered through the unit or left in small groups in the unit. Narrow ridges between close v-notches may present opportunities for leaving groups of seed trees. Orient leave trees to minimize blowdown risk, where possible to do so. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 08/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11 /08 /95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 1173 of the NW Baranof Timber Sale

STAND #59,61,72,
108

VCU 291

MANAGEMENT AREA C41

ACRES 17 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 33 Photo #'s 188

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 300 to 700 ft. Aspect: NW to NW Slope: 35 to 55 %
Landform: Alluvial fan to smooth, infrequently dissected mountainslopes.

Plant Association: Mixed conifer/blueberry

Site Index (Farr 50 yr.): 67

Soil: 3547C, 5243B

Parent Material: Compact till, decomposed sedge and sphagnum over compact till.

Soil Depth in: <20 Soil Texture/Drainage: Shallow, somewhat poorly drained mineral soils underlain by compact till; shallow, poorly drained organic soils overlying compact till.

Potential of Mass Failure: Low to moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 9-13-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Low

Damaging Agents: Moderate amount of decay. No mistletoe or fluting noted. No cedar decline noted.

Species Composition (trees 5+\" DBH): 57 %WH %MH 43 %AC %SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Dominant hemlock defective, cedar less so; codoms. with good form/vigor; intermed. best form in gaps.

Ave. Height: 85-90 ft. Basal Area: 280 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 16 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: <5-10% rusty, 60-90% vaccinium. Vaccinium height 3-5 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 438 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Streams along NW and N boundaries may have fish habitat adjacent to unit. No visual concerns. Unit contains v-notches, which will likely require directional falling to protect notches.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 291 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Duffield Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of v-notches.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to anticipated lack of cedar regeneration with this method. Clearcut/reserves is a feasible treatment, but will likely not result in adequate cedar regeneration. Seed tree cut best meets landscape objective of ensuring cedar remains a component in regenerating stand. Objective of high canopy retention will not be met with this treatment.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar trees per acre, either scattered through the unit or left in small groups in the unit. Narrow ridges between close v-notches may present opportunities for leaving groups of seed trees. Orient leave trees to minimize blowdown risk, where possible to do so. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 08/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 08/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 1211 of the NW Baranof Timber Sale

STAND #15,44,164, VCU 291 MANAGEMENT AREA C41
229

ACRES 6 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1989 Flight Line 32C Photo #'s 123
Scale: 1:12000
1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 250 to 400 ft. Aspect: NE to SE Slope: 20 to 55 %
Landform: Smooth, frequently dissected mountainslopes, broken mountainslopes
and hillslopes, frequently dissected footslopes and alluvial fans
Plant Association: Western hemlock-Alaska yellow cedar/blueberry

Site Index (Farr 50 yr.): 62
Soil: 3521D, 3639B, 6174B, 6290A
Parent Material: Colluvium, residuum, volcanic ash, organics
Soil Depth in: <10 - >51 Soil Texture/Drainage: Poorly to very poorly drained
silt loams and organic soils

Potential of Mass Failure: Low

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-18-94
Stand History: Wind processes are the primary disturbance agent
Potential Windthrow Hazard: Moderate
Damaging Agents: Moderate decay. No fluting or mistletoe noted. Cedar decline
not noted.
Species Composition (trees 5+\" DBH): 25-30 %WH 15 %MH 55-60 %AC %SS
Stand Structure: Uneven aged stand with 3 canopy layers. Dominants scattered,
poor vigor; codoms. fairly vigorous; intermediates generally poor form/vigor.
Ave. Height: 95-105ft. Basal Area: 280 sq.ft. Ave. Age: 250+ yr.
Ave. DBH (trees 5+\" DBH): 14-16in. Ave. TPA (trees 5+\" DBH):
Ground Cover: 50-90% vaccinium, 5-10% rusty. Vaccinium hieght 3-4 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 170 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit contains an old slide, as well as blowdown.
Nearly half of unit is in mapped riparian area, and is likely to contain addi-
tional unmapped fish habitat. No visual concerns.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 291 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Duffield Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of unstable soil. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to anticipated lack of cedar regeneration with this method. Clearcut/reserves is a feasible treatment, but will likely not result in adequate cedar regeneration; it also will not meet goal of high canopy retention. Seed tree cut best meets landscape and unit objectives of ensuring cedar remains a component in regenerating stand, but will not meet objective of high canopy retention.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar trees per acre either scattered through the unit or left in small groups. Orient leave trees to minimize blowdown risk, where possible to do so. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. Dougan

Date: 11/ 09/ 95

Certified By: William R. Dougan
Certified Silviculturist

Date: 11/ 09/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 1221 of the NW Baranof Timber Sale

STAND #14,15,86, VCU 291 MANAGEMENT AREA C41
164

ACRES 32 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1989 Flight Line 32C Photo #'s 123
Scale: 1:12000
1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 700 to 1300 ft. Aspect: SE to Slope: 35 to 60 %
Landform: Smooth, infrequently dissected mountainslopes and broken mountain-
slopes and hillslopes
Plant Association: Western hemlock/blueberry and Western hemlock-Alaska yellow
cedar/blueberry
Site Index (Farr 50 yr.): 84
Soil: 3521D, 3639B, 3695C
Parent Material: Colluvium, residuum, volcanic ash
Soil Depth in: <10 - >40 Soil Texture/Drainage: Poor to moderately well
drained silt and sandy loams
Potential of Mass Failure: Low

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-18-94
Stand History: Wind processes are the primary disturbance agent
Potential Windthrow Hazard: Moderate
Damaging Agents: Moderate decay. No fluting or mistletoe noted. Very little
cedar decline noted.
Species Composition (trees 5+\" DBH): 70-75 %WH %MH <5 %AC 25-30%SS
Stand Structure: Uneven aged stand with 3 canopy layers. Dominants decadent;
codoms. with better form/vigor; intermediates generally good form.
Ave. Height: 110-115 ft. Basal Area: 280 sq.ft. Ave. Age: 200+ yr.
Ave. DBH (trees 5+\" DBH): 20 in. Ave. TPA (trees 5+\" DBH):
Ground Cover: 35-75% vaccinium, <5% rusty. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 936 MBF
NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit dissected by v-notches and is wet in areas.
Recommend directional falling away from notches. No visual concerns.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 291 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Duffield Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of unstable and wet soils. Protect v-notches. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to anticipated lack of cedar regeneration with this method. Clearcut/reserves is a feasible treatment, but will likely not meet goals of adequate cedar regeneration and high canopy retention. Seed tree cut will meet objective of cedar regeneration, but will not meet canopy retention objective.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar trees per acre either scattered through the unit or left in small groups in the unit. Narrow ridges between close v-notches may present opportunities for leaving groups of seed trees. Orient leave trees to minimize blowdown risk, where possible to do so. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 09/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 09/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 1231 of the NW Baranof Timber SaleSTAND # 11,15,86, VCU 291 MANAGEMENT AREA C41
180ACRES 26 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 31 Photo #'s 41Scale: 1:120001/4 Quad ID: Sitka B5NESITE CHARACTERISTICS:Elevation: 700 to 1600 ft. Aspect: SE to Slope: 30 to 75+ %Landform: Smooth, frequently dissected, shallowly incised mountainslopes and
broken mountainslopes and hillslopesPlant Association: Mountain hemlock/blueberry in upper areas, Western hemlock/
blueberry in lower areasSite Index (Farr 50 yr.): 79Soil: 3221D, 3521D, 3695CParent Material: Colluvium, residuumSoil Depth in: <20 - >40 Soil Texture/Drainage: Moderately well drained to
well drained silt loams and sandy loamsPotential of Mass Failure: ModerateSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 6-18-94Stand History: Wind processes are the primary disturbance agentPotential Windthrow Hazard: ModerateDamaging Agents: Moderate decay. No fluting or mistletoe noted.Species Composition (trees 5+ " DBH): 55-60 %WH 40-45 %MH %AC %SSStand Structure: Uneven aged stand with 3 canopy layers. All layers growing
slowly with variable form/vigor; some mortality occurring.Ave. Height: 110-120 ft. Basal Area: 280 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+ " DBH): 24-26 in. Ave. TPA (trees 5+ " DBH): Ground Cover: 45-65% vaccinium, <5-5% currant and devil's club. Vaccinium
height 2-3 ft.Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 757 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Helicopter yarding required. Unit contains oversteepened slopes; cliffs present
near backline. Ensure backline is below cliffs during layout. Directional fal-
ling recommended along v-notches. Remove any debris introduced into notches
during yarding. No visual concerns-within visual quality objective for area.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 291 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Duffield Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of unstable and oversteepened soils.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves, group selection and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves is feasible, but will not meet objective of high canopy retention. Group selection is feasible, and will meet landscape and unit objectives. Overstory removal is feasible, and will meet landscape and unit objectives, as well as provide for a mosaic of forest structures in the stand immediately following treatment.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees less than 16" DBH as leave trees. Protect advanced regeneration to the extent possible. Helicopter yard. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. DouganDate: 11/ 09/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 09/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 1251 of the NW Baranof Timber Sale

STAND #30,236

VCU 291

MANAGEMENT AREA C41

ACRES 33 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 32 Photo #'s 199

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 800 to 1200 ft. Aspect: NW to Slope: 50 to 65 %

Landform: Smooth, frequently dissected, shallowly incised mountainslopes and broken mountainslopes and hillslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 67

Soil: 3247C, 3670C

Parent Material: Compact till and organics derived from sedge/sphagnum

Soil Depth in: <20 Soil Texture/Drainage: Somewhat poorly drained to very poorly drained silt loams and organic soils

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 9-11-93

Stand History: Wind and small slide processes are primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted. Pini and pinicola found throughout unit.

Species Composition (trees 5+\" DBH): 55-60 %WH 10-15 %MH %AC 25-35%SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants/codominants have high defect, poor vigor; intermediates generally good form and vigor.

Ave. Height: 120-130 ft. Basal Area: 280 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 22 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 30-70% vaccinium, <5-10% rusty and devil's club. Vaccinium height 3-4 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 979 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Protect v-notches, wet areas and shallow soils.

Remove any debris introduced into notches. No visual concerns.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 291 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Duffield Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of wet and shallow soils and v-notches.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves is feasible for regenerating stand, but will not meet canopy retention objectives. Group selection is feasible, but decadence and poor vigor of stand makes this method questionable in terms of long-term economics (stand volume/value likely to decline sharply over length of cutting cycles needed to harvest stand with this method).

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain a minimum of 2 snags/acre around edges of unit or within unit, if safety allows. In addition, retain up to 6 live trees/acre (live cull are preferred) in windfirm groups through the unit to provide structure and serve as future snag sources. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 09/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 09/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 1252 of the NW Baranof Timber Sale

STAND # 30 VCU 291 MANAGEMENT AREA C41

ACRES 43 Determined How: GIS By Whom: M. Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 32 Photo #'s 199

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 400 to 800 ft. Aspect: NW to NW Slope: 40 to 65 %
Landform: Smooth, frequently incised mountainslopes and alluvial fans

Plant Association: Mixed conifer/blueberry

Site Index (Farr 50 yr.): 81

Soil: 3247C, 5220B

Parent Material: Compact till.

Soil Depth in: <20 Soil Texture/Drainage: Shallow, somewhat poorly
drained mineral soils underlain by compact till.

Potential of Mass Failure: Low to high

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 9-11-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate amount of decay in the stand. No fluting or mistletoe
noted. No cedar decline noted.

Species Composition (trees 5+" DBH): 40 %WH 20 %MH 40 %AC %SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Stand is open with
dominants decadent; codoms. variable form/vigor; intermediates filling in gaps.

Ave. Height: 90-95ft. Basal Area: 200 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 16 in. Ave. TPA (trees 5+" DBH):

Ground Cover: <5-10% rusty and devil's club, 55-90% vaccinium. Height of vac-
cinium 3-4 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 1282 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Protect v-notches, wet areas, and shallow soils.

Remove any debris introduced into notches. West boundary of unit has mapped ri-
parian habitat. Several small unmapped channels emerging from unit may contain
fish habitat. No visual concerns.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 291 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Duffield Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of wet, shallow soils and v-notches. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to anticipated lack of cedar regeneration with this method. Clearcut/reserves is a feasible treatment, but will not meet objectives of canopy retention, and will likely not result in adequate cedar regeneration. Seed tree cut best meets objective of ensuring cedar remains a component in regenerating stand, though it will not meet objective of canopy retention.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar trees per acre either scattered through the unit or left in small groups in the unit. Narrow ridges between close v-notches may present opportunities for leaving groups of seed trees. Orient leave trees to minimize blowdown risk, where possible to do so. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 09/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 09/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 1271 of the NW Baranof Timber Sale

STAND #29,30,31

VCU 291

MANAGEMENT AREA C41

ACRES 21 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 31 Photo #'s 39

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 700 to 950 ft. Aspect: NW to NW Slope: 45 to 65 %
Landform: Smooth, frequently dissected, shallow incised mountainslopes to broken mountainslopes and hillslopes.

Plant Association: Western hemlock - yellow cedar/blueberry

Site Index (Farr 50 yr.): 67

Soil: 3247C, 3663C

Parent Material: Compact till

Soil Depth in: <20 Soil Texture/Drainage: Shallow, somewhat poorly drained mineral soil underlain by compact till.

Potential of Mass Failure: Moderate to high

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 9-10-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate amount of decay in the stand. No fluting or mistletoe noted. No cedar decline noted.

Species Composition (trees 5+" DBH): 70-75 %WH %MH 25-30 %AC %SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Dominants decadent/defective; codoms. better form/vigor; intermediates with good form in gaps.

Ave. Height: 105-110ft Basal Area: 280 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 18 in. Ave. TPA (trees 5+" DBH):

Ground Cover: <5-5% rusty and devil's club, 30-80% vaccinium. Height of vaccinium 3-4 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 599 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit is dissected and contains wet soils. Recommend directional falling away from v-notches. No visual concerns.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 291 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Duffield Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of wet soils and v-notches. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include seed tree cut and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Clearcut/reserves and group selection not considered due to presence of manageable understory/midstory and presence of significant cedar component in stand. Seed tree cut is feasible, but will not take advantage of retaining existing understory/midstory of cedar, and will not meet objective of canopy retention. Overstory removal best meets objectives of retaining cedar and existing understory as well as providing for a moderate canopy retention.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees less than 16" DBH; to the extent possible, protect advanced regeneration and intermediates during logging, particularly cedar. Helicopter yard. Rely on natural regeneration to fill in gaps created by harvest.

Prepared By: William R. DouganDate: 11/ 09/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 09/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 1275 of the NW Baranof Timber SaleSTAND # 30,31 VCU 291 MANAGEMENT AREA C41ACRES 41 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 31 Photo #'s 39Scale: 1:120001/4 Quad ID: Sitka B5NESITE CHARACTERISTICS:Elevation: 400 to 1300 ft. Aspect: NW to Slope: 45 to 60 %Landform: Smooth, frequently dissected, shallowly incised mountainslopes, broken mountainslopes and hillslopes, and frequently dissected footslopesPlant Association: Western hemlock-Alaska yellow cedar/blueberry and mixed conifer/blueberrySite Index (Farr 50 yr.): 81Soil: 3247C, 5220BParent Material: Compact till and colluviumSoil Depth in: <20 - >60 Soil Texture/Drainage: Somewhat poorly drained to well drained silt loams and mucky silt loamsPotential of Mass Failure: ModerateSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 9-10-93Stand History: Wind processes are the primary disturbance agentPotential Windthrow Hazard: LowDamaging Agents: Moderate decay. No fluting or mistletoe noted. No cedar decline noted.Species Composition (trees 5+\" DBH): 40 %WH %MH 60 %AC %SSStand Structure: Mosaic stand structures with 3 canopy layers. Mosaic of larger, decadent trees mixed with smaller pole-sized patches of healthier trees.Ave. Height: 95-105ft. Basal Area: 200 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+\" DBH): 16-18in. Ave. TPA (trees 5+\" DBH): Ground Cover: 40-80% vaccinium, <5-10% rusty. Vaccinium height 3-4 ft.Total Net Sawlog Vol/Acre: MBFTotal Unit Vol: 1172 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Minimize impacts to v-notches. Unit contains mapped riparian habitat along west boundary. Several small unmapped channels may contain fish habitat. Maintain a minimum 100 ft. buffer at the NW and W unit boundaries. Place north and south unit boundaries at or above slope break. No visual concerns.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 291 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Duffield Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to mosaic nature of cedar occurrence in unit. Clearcut/reserves is feasible, but will not meet canopy retention objective. Group selection will best meet objective of maintaining a high canopy retention.

RECOMMENDED TREATMENT:

Recommended treatment is group selection. This will result in a multi-storied, multi-aged stand with high canopy retention. Harvest up to 20% of unit in groups up to 2 acres in size this entry; plan for cutting cycle of 40-50 years with up to 20% removal each cutting cycle. Orient groups up/down the slope, parallel to v-notches. Helicopter yard. Rely on natural regeneration, with realization that cedar regeneration may not be adequate.

Prepared By: William R. DouganDate: 11/ 09/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 09/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 2042 of the NW Baranof Timber Sale

STAND # 68,86 VCU 289 MANAGEMENT AREA C40

ACRES 19 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 29 Photo #'s 51

Scale: 1:12000

1/4 Quad ID: Sitka B5NW

SITE CHARACTERISTICS:

Elevation: 200 to 500 ft. Aspect: N to NE Slope: 45 to 65 %
Landform: Broken mountainslopes and hillslopes n

Plant Association: Western hemlock/blueberry and Western hemlock-Alaska yellow cedar/blueberry

Site Index (Farr 50 yr.): 73

Soil: 3648D, 3672B

Parent Material: Volcanic ash, organics derived from sedge/sphagnum

Soil Depth in: <20 - >51 Soil Texture/Drainage: Very poorly drained to well drained silt loams and mucky silt loams; some areas of peat.

Potential of Mass Failure: Low to moderate

STAND CHARACTERISTICS:

Stand Examination: Type None (walk thru of general area done) Date 9-9-93

Stand History: Wind processes appear to be the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Low to moderate decay. No fluting or mistletoe noted. Pini present in general area.

Species Composition (trees 5+\" DBH): 75-80%WH %MH 20-25 %AC %SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants generally decadent; codoms. vary in vigor/form; intermediates more healthy where present.

Ave. Height: 90-100ft. Basal Area: 280 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 14-18in. Ave. TPA (trees 5+\" DBH):

Ground Cover: Heavy vaccinium cover (up to 90%), <5-5% rusty. Vaccinium height 2-4 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 479 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unmapped streams flowing out of north and east unit corners may have fish habitat that reaches the unit. Visuals within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 289 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Provide for a variety of horizontal and vertical forest structure across the landscape.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for protection/regeneration of shade tolerant species. Seed tree cut not considered due to mosaic distribution of cedar in the unit. Group selection is feasible, though decadence/vigor of stand makes long-term economics marginal due to length of cutting cycles and time needed to harvest original stand. Clearcut/reserves is feasible for regenerating stand, and will provide for earlier successional stages within this landscape.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags/acre along unit boundary or within unit, safety permitting. In addition, retain up to 6 trees/acre (live cull preferred) for structure and to serve as future snag sources. Trees may be grouped or scattered through the unit. Consider planting some cedar in unit should natural regeneration of cedar be unsuccessful following harvest.

Prepared By: William R. Dougan

Date: 11/ 09/ 95

Certified By: William R. Dougan
Certified Silviculturist

Date: 11/ 09/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 2043 of the NW Baranof Timber Sale

STAND #68,86,93,94,97 VCU 289

MANAGEMENT AREA C40

ACRES 68 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 29 Photo #'s 52

Scale: 1:12000

1/4 Quad ID: Sitka B5NW

SITE CHARACTERISTICS:

Elevation: 200 to 800 ft. Aspect: S to E Slope: 22 to 94 %
Landform: Gently sloping and rolling lowlands to broken mountainslopes and hillslopes.

Plant Association: Mixed conifer/blueberry/skunk cabbage and Western hemlock - yellow cedar/menziesia

Site Index (Farr 50 yr.): 73

Soil: 3644C, 3648D, 6190B

Parent Material: Volcanic ash, decomposed organics from sedge, sphagnum, mosses.

Soil Depth in: <20 - 40+ Soil Texture/Drainage: Deep, somewhat poorly drained mineral soil; shallow, well drained mineral soil overlying bedrock; very shallow well drained organic soil; deep, very poorly drained organic soil.

Potential of Mass Failure: Low to high

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 9-9-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate to high

Damaging Agents: Low amount of Pini conks, low amount of decay in the stand.

Cedar decline taking place in portion of the stand. No fluting or mistletoe.

Species Composition (trees 5+ DBH): 80 %WH 5 %MH 15 %AC %SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Dominants generally decadent; codoms. vary in form/vigor; intermediates best in gaps, well stocked.

Ave. Height: 75-100ft. Basal Area: 280sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+ DBH): 14-20in. Ave. TPA (trees 5+ DBH):

Ground Cover: 5% rusty menziesia, 80-95% vaccinium. Vaccinium height 2-4 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 1716 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit contains some oversteepened areas, some unstable soils, and cliffs. Ensure cliffs are protected from harvest. Fish habitat along S boundary needs to be protected. Visual concerns - unit does not meet visual quality objective. Adjust boundary to reduce apparent size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 289 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect areas of cliffs, unstable soils and oversteep areas.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for protection/regeneration of shade tolerant species. Seed tree cut not considered due to mosaic nature of cedar distribution in the unit. Group selection is feasible, though decadence/vigor of stand makes future entries questionable economically, due to length of cutting cycles and time necessary to harvest entire stand. Clearcut/reserves is feasible to regenerate the stand, and will provide for earlier successional stages within this landscape.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags/acre along unit boundaries or within unit, if safety permits. In addition, retain up to 6 trees per acre (live cull preferred) for structure and as sources of future snags. These trees may be either scattered through unit or grouped into small groups through the unit. Helicopter yard. Rely on natural regeneration. Consider planting cedar in unit if natural regeneration is not adequate.

Prepared By: William R. Dougan

Date: 11/ 09/ 95

Certified By: William R. Dougan
Certified Silviculturist

Date: 11/ 09/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 3002 of the NW Baranof Timber Sale

STAND #337,340 VCU 292 MANAGEMENT AREA C41

ACRES 24 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 34 Photo #'s 199

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 800 to 1200 ft. Aspect: S to E Slope: 50 to 60 %

Landform: Smooth, frequently dissected, shallow incised mountainslopes and broken mountainslopes and hillslopes.

Plant Association: Sitka spruce/blueberry/skunk cabbage

Site Index (Farr 50 yr.): 90

Soil: 3225E, 3670C

Parent Material: Colluvium and residuum, organics from sedge and sphagnum.

Soil Depth in: <20 - > 40 Soil Texture/Drainage: Shallow, poorly drained organic soils or shallow, well drained mineral soils overlying bedrock; shallow or deep, well drained mineral soils.

Potential of Mass Failure: Low to high

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 9-26-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate to high

Damaging Agents: Low to moderate amounts of decay. Pini present in the unit.

No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 55-60 %WH 10-15 %MH %AC 25-30%SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Dominants and codoms. generally declining; intermediates well stocked, vary in form/vigor.

Ave. Height: 80-100ft. Basal Area: 280 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 16-18in. Ave. TPA (trees 5+\" DBH):

Ground Cover: <5-5% rusty, 80% vaccinium. Vaccinium height 1-2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 688 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit contains small areas of oversteepened and unstable soil. Unit as planned does not meet visual quality objective - adjust boundary to reduce apparent size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Rodman Bay area to provide a variety of horizontal and vertical forest structure across the landscape. Provide for wildlife travel corridors between ridge and beach.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, and would meet canopy retention objectives as well as minimize negative visual impacts; decadence of stand makes economics of this method questionable. Clearcut/reserves is feasible for regeneration of stand, but does not meet canopy retention objectives nor minimize negative visual impacts.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags/acre along unit boundaries or within unit if safety permits. In addition, retain up to 6 trees/acre (live cull preferred) for structure and as a source of future snags. Trees may be scattered or grouped in small groups in unit. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 09/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 09/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 3011 of the NW Baranof Timber SaleSTAND #327,328,334 VCU 292 MANAGEMENT AREA C41ACRES 48 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 33 Photo #'s 188Scale: 1:120001/4 Quad ID: SITKA B5NESITE CHARACTERISTICS:Elevation: 500 to 1400 ft. Aspect: S to E Slope: 42 to 70 %Landform: Smooth, frequently dissected, shallow incised mountainslopes; broken mountainslopes and hillslopes; mountainslope ravine.Plant Association: Western hemlock/blueberry/skunk cabbageSite Index (Farr 50 yr.): 58Soil: 3225E, 3638D, 3670C, 3779EParent Material: Colluvium and residuum, organicsSoil Depth in: <20 - >40 Soil Texture/Drainage: Shallow to deep, well drained mineral soils; very shallow, well drained organic soil; shallow, very poorly drained organic soils.Potential of Mass Failure: Low to highSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 9-10-93Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: ModerateDamaging Agents: Low decay in stand. No fluting or mistletoe noted.Species Composition (trees 5+\" DBH): 100 %WH %MH %AC %SSStand Structure: Uneven-aged stand with 3 canopy layers. A few scattered spruce predoms.; doms./codoms. generally good vigor; intermediates well stocked.Ave. Height: 100 ft. Basal Area: 240sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+\" DBH): 25 in. Ave. TPA (trees 5+\" DBH): Ground Cover: 1% rusty menziesia, 95% vaccinium. Vaccinium height 1-3 ft.Total Net Sawlog Vol/Acre: MBFTotal Unit Vol: 1298 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Helicopter yarding required. Ensure lower boundary is above any oversteepened ground if found during layout. No visual concerns.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Rodman Bay area to provide a variety of horizontal and vertical forest structure across the landscape. Protect oversteep areas. Maintain wildlife travel corridors between ridge and beach.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves is feasible for regenerating stand, but will not meet canopy retention objectives and will visually impact landscape. Group selection will meet canopy retention objectives, be less visual, and will maintain wildlife travel corridors in area.

RECOMMENDED TREATMENT:

Recommended treatment is group selection. This will result in a multi-storied, multi-aged stand with high canopy retention. Harvest up to 20% of unit in groups up to 1-2 acres in size this entry; plan for cutting cycle of 40-50 years with up to 20% removal each cutting cycle. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 09/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 09/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 3012 of the NW Baranof Timber Sale

STAND #327,328 VCU 292 MANAGEMENT AREA C41

ACRES 138 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 33 Photo #'s 188

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 500 to 1600 ft. Aspect: S to S Slope: 38 to 95 %

Landform: smooth, infrequently dissected, shallow incised mountainslopes; broken mountainslopes and hillslopes; mountainslope ravine.

Plant Association: Western hemlock/blueberry/devil's club; mixed conifer/blueberry; Sitka spruce/blueberry

Site Index (Farr 50 yr.): 90

Soil: 3225E, 3638D, 3670C, 3779E

Parent Material: Colluvium and residuum; organics

Soil Depth in: <20 - >40 Soil Texture/Drainage: Shallow to deep, well drained mineral soils; very shallow, well drained organic soil; shallow, very poorly drained organic soils.

Potential of Mass Failure: Low to high

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 9-10-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: high

Damaging Agents: Moderate to high infection of mistletoe, moderate amount of decay and high amount of defect also present. Pini conks present in stand.

Species Composition (trees 5+\" DBH): 35-40 %WH 35-40 %MH %AC 20-30%SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Dominants defective; codoms. vary in health; intermediates variable. Mistletoe throughout all layers

Ave. Height: 105 ft. Basal Area: 440 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 25 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 1% rusty menziesia, 50% vaccinium. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 3899 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Oversteepened areas within unit over 80 percent for 100 ft. or more should not be harvested. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Rodman Bay area to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of oversteep ground and v-notches. Maintain travel corridors for wildlife between ridge and beach. Reduce mistletoe infection to improve forest health.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection if feasible, but will not meet objective of reducing mistletoe infection. Clearcut/reserves will meet regeneration needs and reduce mistletoe infection, but will not meet canopy retention and wildlife travel corridor objectives.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags/acre either scattered through unit if safety allows or around unit edges. In addition, retain up to 6 trees per acre (live cull preferred, but do not select mistletoe-infected hemlock) for structure and future snag sources. Trees may be left either scattered through unit or in small groups through unit. Slope constraint on harvest will also retain additional groups of trees in unit. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 09/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 09/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 3014 of the NW Baranof Timber Sale

STAND #302,327,328 VCU 292 MANAGEMENT AREA C41

ACRES 36 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 33 Photo #'s 188

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 1000 to 1100 ft. Aspect: S to Slope: 30 to 70 %
Landform: Smooth, frequently dissected, shallow incised mountainslopes; broken mountainslopes and hillslopes.

Plant Association: Mountain hemlock/blueberry and Sitka spruce/blueberry

Site Index (Farr 50 yr.): 83

Soil: 3225D, 3225E, 3670C

Parent Material: Colluvium and residuum; oranics from sedge and sphagnum

Soil Depth in: <20 - >40 Soil Texture/Drainage: Shallow to deep, well drained mineral soils; shallow, very poorly drained organic soils.

Potential of Mass Failure: Low to high

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 9-10-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate to high

Damaging Agents: Low to moderate decay. No fluting or mistletoe noted. Pini is present in the unit.

Species Composition (trees 5+ " DBH): %WH 75 %MH %AC 25 %SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Dominants scattered, decadent; codoms. vary in vigor; intermediates healthy, slow growth.

Ave. Height: 60-80 ft. Basal Area: 320sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+ " DBH): 18 in. Ave. TPA (trees 5+ " DBH):

Ground Cover: 80% vaccinium cover. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 913 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Remove any debris introduced into large v-notches during harvest. Ensure backline is below area containing old slides. An unmapped Class III channel occurs in SW corner of unit and needs to be protected. A small Class III lake near NE corner of unit needs 100 ft. buffer to protect water quality. No visual concerns.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Rodman Bay area to provide a variety of horizontal and vertical forest structure across the landscape. Protect v-notches. Maintain wildlife travel corridors in area between ridge and beach.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible for regenerating stand, though decadence and vigor of stand makes economics of this method questionable. Clearcut/reserves is feasible for regenerating stand, though it doesn't meet canopy retention objectives. Adjacent units in unit pool have group selection prescription, which will maintain high canopy retention and travel corridor in this general area of the landscape.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags/acre around unit boundary or within unit if safety permits. In addition, retain up to 6 trees/acre (live cull preferred) for structure and as future snag replacements. These trees may be scattered through unit or grouped in small groups through the unit. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 09/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 09/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 3015 of the NW Baranof Timber Sale

STAND #302,327,328

VCU 292

MANAGEMENT AREA C41

ACRES 94 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 33 Photo #'s 188

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 500 to 1200 ft. Aspect: S to Slope: 60 to 90 %

Landform: Smooth, frequently dissected, shallowly incised mountainslopes and broken mountainslopes and hillslopes

Plant Association: Mixed conifer/blueberry

Site Index (Farr 50 yr.): 95

Soil: 3225D, 3225E

Parent Material: Colluvium and residuum

Soil Depth in: <20 - >40 Soil Texture/Drainage: Moderately well drained to well drained silt loams and sandy loams

Potential of Mass Failure: Moderate to high

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-20-94

Stand History: Wind and small slide processes are primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted. Pini present in unit.

Species Composition (trees 5+" DBH): %WH 90 %MH %AC 10 %SS

Stand Structure: Mosaic stand structures with 3 canopy layers. All canopy layers show decadence and slowed growth.

Ave. Height: 110-120ft Basal Area: 400 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 22 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 40-80% vaccinium, <10% rusty. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 2725 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit contains oversteepened slopes, cliffs, wet, shallow and rocky soils. Dissected with v-notches. Recommend directional falling away from notches. Soil scientist recommended during layout. Two unmapped Class III channels bisect middle of unit. No visual concerns.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on market or commodity resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Rodman Bay area to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of soils concerns and v-notches. Maintain wildlife travel corridors between ridge and beach across the landscape.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves is feasible for regenerating stand, but does not meet canopy objective. Group selection best meets objectives of canopy retention and maintaining wildlife travel corridors, though area below unit has been previously harvested.

RECOMMENDED TREATMENT:

Recommended treatment is group selection. This will result in a multi-storied, multi-aged stand with high canopy retention. Harvest up to 20% of unit in groups up to 1-2 acres in size this entry; plan for cutting cycle of 40-50 years with up to 20% removal each cutting cycle. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 09/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 09/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 3033 of the NW Baranof Timber Sale

STAND # 274 VCU 292 MANAGEMENT AREA C41

ACRES 9 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 32 Photo #'s 198

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 1200 to 1400 ft. Aspect: S to SE Slope: 40 to 70 %

Landform: Undifferentiated mountainslopes' smooth, frequently dissected, shallowly incised mountainslopes; broken mountainslopes and hillslopes

Plant Association: Sitka spruce-mountain hemlock/blueberry

Site Index (Farr 50 yr.): 88

Soil: 3002E, 3225E, 3670C

Parent Material: Colluvium, residuum, and organics derived from sedge/sphagnum

Soil Depth in: <20 - >40 Soil Texture/Drainage: Very poorly drained to moderately well drained silt loams, sandy loams and organic soils

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-21-94

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: High decay in unit. No fluting or mistletoe noted. Pini common throughout unit.

Species Composition (trees 5+" DBH): %WH 50 %MH 15-20%AC 30-35%SS

Stand Structure: Mosaic structure with 4 canopy layers. Dominants/codominants defective and decadent; lower layers not well stocked, poor vigor.

Ave. Height: 120 ft. Basal Area: 240 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 24 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 30-60% vaccinium. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 227 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Small unstable areas present in unit. No visual concerns.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Adams Creek drainage/Rodman Bay area to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of unstable soils. Retain cedar where it occurs across the landscape.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to decadence/high defect in stand making economics of this method very marginal. Clearcut/reserves is feasible for regenerating stand, though will likely not meet objective of retaining cedar. Seed tree cut best meets objectives, though it does not meet the canopy objective.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 seed trees/acre, with species preference cedar/spruce for seed trees. Trees can be either scattered through the unit or left in small groups through the unit. Orient leave trees to minimize blowdown risk, where possible to do so.

Prepared By: William R. DouganDate: 11/ 09/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 09/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 3041 of the NW Baranof Timber Sale

STAND #27,28,30,31 VCU 291 MANAGEMENT AREA C41
292

ACRES 25 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 31 Photo #'s 39

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 500 to 800 ft. Aspect: NW to NW Slope: 40 to 50 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock - yellow cedar/blueberry

Site Index (Farr 50 yr.): 66

Soil: 3663C

Parent Material: Compact till.

Soil Depth in: <20 Soil Texture/Drainage: Shallow, somewhat poorly
drained mineral soils over compact till.

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 9-10-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate amount of decay in the stand. No fluting or mistletoe
noted. No cedar decline noted.

Species Composition (trees 5+" DBH): 80-85 %WH %MH 15-20 %AC %SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Open stand with scat-
tered dominants; codoms. better form; intermediates have good form in gaps.

Ave. Height: 95-105ft. Basal Area: 240 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 18 in. Ave. TPA (trees 5+" DBH):

Ground Cover: <5-10% rusty and devil's club, 30-75% vaccinium. Vaccinium height
3-4 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 658 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Wet soils scattered through unit. Directional
falling away from v-notches recommended. Check W boundary for Class II streams
at layout.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU's 291 and 292 are allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Adams Creek/Duffield Creek drainages to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of wet soils. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include overstory removal and seed tree cut. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Clearcut/reserves and group selection not considered due to anticipated lack of cedar regeneration with these methods. Overstory removal is feasible, but will likely not meet objective of retaining cedar in regenerating stand. Seed tree cut best meets objective of cedar retention, but does not meet canopy retention objective.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar seed trees per acre, either scattered through the unit or left in small groups in the unit. Where possible, leave stringers of seed trees oriented parallel to wet swales in unit. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 09/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 09/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 3043 of the NW Baranof Timber Sale

STAND #265

VCU 292

MANAGEMENT AREA C41

ACRES 10 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 31 Photo #'s 39

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 500 to 650 ft. Aspect: SW to Slope: 25 to 40 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Mixed conifer/blueberry

Site Index (Farr 50 yr.): 66

Soil: 3643B, 3663C

Parent Material: Decomposed organics over compact till; compact till

Soil Depth in: <20 Soil Texture/Drainage: Shallow, poorly drained or-
ganic soils over mineral soils and compact till; shallow somewhat poorly drained
mineral soils over compact till.

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 9-9-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate amount of decay in the stand. No fluting or mistletoe
noted. Light cedar decline in unit.

Species Composition (trees 5+" DBH): 50 %WH %MH 50 %AC %SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Dominants decadent,
mortality evident; codoms. variable form; intermediates good form in gaps.

Ave. Height: 80-85ft. Basal Area: 320 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 16 in. Ave. TPA (trees 5+" DBH):

Ground Cover: <5-5% rusty, 55-80% vaccinium. Vaccinium height 3-4 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 252 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unmapped Class III stream in center of unit needs
to be protected. No visual concerns.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Adams Creek/Duffield Creek drainages to provide a variety of horizontal and vertical forest structure across the landscape. Retain cedar across landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include overstory removal and seed tree cut. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Clearcut/reserves and group selection not considered due to significant cedar component in stand and anticipated lack of cedar regeneration with these methods. Overstory removal is feasible, though it will likely not result in good cedar regeneration. Seed tree cut best meets objective of cedar regeneration, though it does not meet canopy retention objective.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar trees per acre either scattered through the unit or left in small groups through the unit. Orient leave trees to minimize blowdown risk, where possible to do so. To the extent possible, protect non-merchantable advanced regeneration, particularly cedar.

Prepared By: William R. DouganDate: 11/ 09/ 95Certified By: William R. DouganDate: 11/ 09/ 95

Certified Silviculturist

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 3051 of the NW Baranof Timber Sale

STAND #243,253

VCU 292

MANAGEMENT AREA C41

ACRES 17 Determined How: GIS By Whom: M. Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 30 Photo #'s 115

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 550 to 800 ft. Aspect: E to SE Slope: 35 to 50 %
Landform: Broken mountainslopes and hillslopes n

Plant Association: Western hemlock-Alaska yellow cedar/blueberry and mixed conifer/blueberry

Site Index (Farr 50 yr.): 95

Soil: 3617D, 3639B, 3663C

Parent Material: Volcanic ash and compact till

Soil Depth in: <10 - >40 Soil Texture/Drainage: Poorly drained to moderately well drained silt loams and sandy loams

Potential of Mass Failure: Low to moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-20-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted. Cedar decline evident in unit.

Species Composition (trees 5+\" DBH): 30-35 %WH %MH 30-35 %AC 30-35 %SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants with high decay and mortality; codoms. variable form/vigor; intermediates variable form

Ave. Height: 90-95 ft. Basal Area: 240 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 14-16 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 40-70% vaccinium, <5% rusty and devil's club. Vaccinium height 3-4 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 429 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Ensure unit boundary on N side excludes wet, dissected soils. Split yard on notch in center of unit. Full suspension recommended over notches. No visual concerns.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Adams Creek/Duffield Creek drainages to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of wet and dissected soils, v-notches. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to decadence of stand and economic implications of stand condition/health using this method, as well as likelihood of inadequate cedar regeneration. Clearcut/reserves is feasible, but will likely not meet objectives of canopy retention and cedar regeneration. Seed tree cut will best meet cedar regeneration objective, but will not meet canopy retention objective.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar trees per acre either scattered through the unit or left in small groups in the unit. Narrow ridges between close v-notches may present opportunities for leaving groups of seed trees. Groups of seed trees will likely be more achievable with cable logging system. Orient leave trees to minimize blowdown risk, where possible to do so.

Prepared By: William R. DouganDate: 11/ 09/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 09/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 3052 of the NW Baranof Timber Sale

STAND #242,245 VCU 292 MANAGEMENT AREA C41

ACRES 6 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 30 Photo #'s 115

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 800 to 1100 ft. Aspect: E to SE Slope: 50 to 85+ %
Landform: Broken mountainslopes and hillslopes

Plant Association: Mixed conifer/blueberry and Western hemlock-Alaska yellow cedar/blueberry

Site Index (Farr 50 yr.): 95

Soil: 3617D, 3639B, 3663C

Parent Material: Volcanic ash and compact till

Soil Depth in: <10 - >40 Soil Texture/Drainage: Poorly drained to moderately well drained silt loams and sandy loams

Potential of Mass Failure: Moderate to high

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-21-94

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted. No cedar decline noted.

Species Composition (trees 5+" DBH): 60-65 %WH %MH 35-40 %AC %SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants/codoms. beginning to break up, creating gaps; intermediates vigorous in gaps.

Ave. Height: 100-120ft Basal Area: 240 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 18-20in. Ave. TPA (trees 5+" DBH):

Ground Cover: 50-80% vaccinium, 5-15% rusty. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 151 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. No visual concerns.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Adams Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to decadence of stand and economics associated with extended time period for harvesting stand. Seed tree cut is feasible, though relatively few decent cedar seed trees/acre exist in stand. Clearcut/reserves is feasible, though it is unlikely cedar regeneration will be adequate with this method, and it does not meet canopy retention objective.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut with reserves. Retain 2 snags/acre either along unit boundaries or within unit if safety permits. In addition, leave up to 6 trees/acre (live cull preferred) for structure and future snag sources. Group leave trees in small groups through the unit. Helicopter yard. Rely on natural regeneration, though plan on planting cedar if cedar regeneration is not adequate.

Prepared By: William R. DouganDate: 11/ 09/ 95Certified By: 
Certified SilviculturistDate: 11/ 09/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 3053 of the NW Baranof Timber SaleSTAND #242,244,245VCU 292MANAGEMENT AREA C41ACRES 15 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 30 Photo #'s 115Scale: 1:120001/4 Quad ID: Sitka B5NESITE CHARACTERISTICS:Elevation: 500 to 900 ft. Aspect: E to SE Slope: 60 to 90 %
Landform: Broken mountainslopes and hillslopes nPlant Association: Western hemlock-Alaska yellow cedar/blueberrySite Index (Farr 50 yr.): 95Soil: 3617D, 3639B, 3663CParent Material: Volcanic ash and compact tillSoil Depth in: <10 - >40 Soil Texture/Drainage: Poorly drained to moderately well drained silt loams and sandy loamsPotential of Mass Failure: ModerateSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 6-21-94Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: ModerateDamaging Agents: Moderate decay. No fluting or mistletoe noted. Cedar decline is evident, though not heavy.Species Composition (trees 5+" DBH): 65-70%WH %MH 30-35 %AC %SSStand Structure: Uneven aged stand with 3 canopy layers. Dominants/codoms. are breaking up, releasing intermediates in gaps.Ave. Height: 90-110ft. Basal Area: 240 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+" DBH): 14-16in. Ave. TPA (trees 5+" DBH): Ground Cover: 40-90% vaccinium, 5-15% rusty and devil's club. Vaccinium height 2-3 ft.Total Net Sawlog Vol/Acre: MBFTotal Unit Vol: 379 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Cable yarding specified. Partial suspension required for soils protection. Ensure backline is below oversteepened, cliffy slopes. Full suspension recommended over v-notches. Class II stream in SE corner of unit needs to be protected. No visual concerns.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Adams Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of oversteepened soils and v-notches.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to decadence of stand and economics of long-term multiple entries with this method. Seed tree cut is feasible, but not recommended due to heavy cedar decline. Clearcut/reserves best meets regeneration needs, but does not meet canopy retention objective.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre, either around unit edges or within units in small groups between yarding corridors. In addition, retain up to 6 trees per acre (live cull preferred) for structure and as a source of future snags. Retain trees as small groups between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. Dougan

Date: 11/ 13/ 95

Certified By: 
Certified Silviculturist

Date: 11/ 13/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 3054 of the NW Baranof Timber SaleSTAND #234,236,245, VCU 292 MANAGEMENT AREA C41
246,278,279ACRES 47 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 30 Photo #'s 115
Scale: 1:12000
1/4 Quad ID: Sitka B5NESITE CHARACTERISTICS:Elevation: 300 to 800 ft. Aspect: SE to S Slope: 50 to 90 %
Landform: Broken mountainslopes and hillslopes nPlant Association: Western hemlock-Alaska yellow cedar/blueberrySite Index (Farr 50 yr.): 97Soil: 3617D, 3639B, 3663CParent Material: Volcanic ash and compact tillSoil Depth in: <10 - >40 Soil Texture/Drainage: Poorly drained to moderately well drained silt loams and sandy loamsPotential of Mass Failure: ModerateSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 6-21-94Stand History: Wind and small slide processes are primary disturbance agentsPotential Windthrow Hazard: Moderate to highDamaging Agents: Low decay. No fluting or mistletoe noted. No cedar decline noted.Species Composition (trees 5+\" DBH): 75 %WH %MH 25 %AC %SSStand Structure: Storied stand with 3 canopy layers. Dominants are relics from previous stand; remainder of layers with good health and form.Ave. Height: 90 ft. Basal Area: 160 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+\" DBH): 12-14in. Ave. TPA (trees 5+\" DBH): Ground Cover: 20-60% vaccinium, <5-15% devil's club. Vaccinium height 2 ft.Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 1186 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Cable yarding specified. Unit contains cliffs and oversteepened areas; ensure cliff areas are protected from harvest. Full suspension recommended on slopes greater than 70 percent; partial suspension elsewhere. Lower unit boundary and lower 1/4 of NE and SW side boundaries are within 100 ft. of Class I streams. Steep areas above fish habitat may need a wider buffer than normal due to mass movement hazard. Buffers will likely reduce unit acres.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Adams Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of unstable and oversteepened soils.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to decadence of stand and economics of long-term management with this method. Seed tree cut is feasible, but scattered nature of cedar is not conducive to leaving seed trees with cable yarding. Clearcut/reserves will meet regeneration needs, but will not meet canopy retention objectives.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around edges of unit or in small groups between yarding corridors. In addition, retain up to 6 trees per acre (live cull preferred, as well as some healthy cedar) for structure, future snag sources, and seed (cedar). Retain in groups between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. Dougan

Date: 11/ 13/ 95

Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 13/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 3055 of the NW Baranof Timber SaleSTAND #235,236,246, VCU 292 MANAGEMENT AREA C41
279ACRES 22 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 30 Photo #'s 115
Scale: 1:12000
1/4 Quad ID: Sitka B5NESITE CHARACTERISTICS:Elevation: 400 to 800 ft. Aspect: S to SW Slope: 45 to 70 %
Landform: Broken mountainslopes and hillslopes nPlant Association: Western hemlock-Alaska yellow cedar/blueberrySite Index (Farr 50 yr.): 88Soil: 3617D, 3639BParent Material: Volcanic ashSoil Depth in: <10 - >40 Soil Texture/Drainage: Poorly drained to moderately well drained silt loamsPotential of Mass Failure: ModerateSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 6-21-94Stand History: Wind processes are the primary disturbance agentPotential Windthrow Hazard: Moderate to highDamaging Agents: Moderate decay. No fluting or mistletoe noted. No cedar decline noted.Species Composition (trees 5+\" DBH): 20 %WH 60 %MH 20 %AC 20 %SSStand Structure: Storied stand with 3 canopy layers. Dominant/codoms. very decadent; intermediates releasing in gaps.Ave. Height: 80-90 ft. Basal Area: 200 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+\" DBH): 14-16 in. Ave. TPA (trees 5+\" DBH):Ground Cover: 40-60% vaccinium, 5-20% rusty. Vaccinium height 2 ft.Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 555 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Cable yarding specified. Unit is dissected and has some oversteepened slopes. Recommend full suspension. Directionally fall away from v-notches. Several Class I and II streams occur in lower half of unit. Approximately half of unit as planned is within a TTRA buffer and must be dropped.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

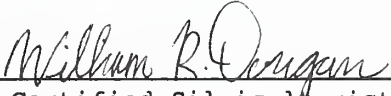
Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Adams Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of oversteepened soils and v-notches.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to decadence of stand and economics of long-term management with this method. Seed tree cut is feasible, though cedar decline in overstory makes selection of seed trees difficult. Clearcut/reserves is feasible for regeneration, but will not meet canopy retention objective.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Retain in groups between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 13/ 95Certified By: 
Certified SilviculturistDate: 11/ 13/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 3061 of the NW Baranof Timber Sale

STAND #252,253,269

VCU 292

MANAGEMENT AREA C41

ACRES 14 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 30 Photo #'s 115

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 200 to 400 ft. Aspect: SE to Slope: 30 to 75+ %
Landform: Broken mountainslopes and hillslopes n

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 64

Soil: 3643B, 3663C

Parent Material: Compact till, decomposed sedge/sphagnum overlying compact till

Soil Depth in: <14 - <20 Soil Texture/Drainage: Poorly to somewhat poorly drained silt loams and mucky silt loams

Potential of Mass Failure: Low

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-20-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+" DBH): 60 %WH %MH %AC 40 %SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants decadent; codoms. variable form/vigor; intermediates generally poor form

Ave. Height: 105-115ft Basal Area: 200 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 18-20in. Ave. TPA (trees 5+" DBH):

Ground Cover: 30-70% vaccinium, <5-10% rusty and devil's club. Vaccinium height 3-4 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 353 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit contains oversteepened areas, slides/slumps and v-notches. Recommend soil scientist present during layout to help determine location of groups. Mark unmapped stream that splits northern 1/3 of unit. An unmapped stream along S boundary turns into a fish stream SE of unit. Maintain minimum 100 ft. buffer for any class I or II portions of this stream. No visual concerns - within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Adams Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of oversteepened and unstable soils.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of significant cedar component in stand. Clearcut/reserves is feasible for regeneration, but will not meet canopy retention objective. Group selection best meets canopy retention objectives and will minimize disturbance to sensitive soil areas.

RECOMMENDED TREATMENT:

Recommended treatment is group selection. This will result in a multi-storied multi-aged stand with high canopy retention. Harvest up to 20% of unit in groups up to 1-2 acres in size this entry; plan for cutting cycle of 40-50 years with up to 20% removal each cutting cycle. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 13/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 13/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 3062 of the NW Baranof Timber Sale

STAND #250,251,252, VCU 292 MANAGEMENT AREA C41
253

ACRES 8 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 30 Photo #'s 115
Scale: 1:12000
1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 350 to 550 ft. Aspect: SE to Slope: 35 to 55 %
Landform: Broken mountainslopes and hillslopes n

Plant Association: Western hemlock-Alaska yellow cedar/blueberry and mixed
conifer/blueberry

Site Index (Farr 50 yr.): 62

Soil: 3643B, 3663C

Parent Material: Compact till and decomposed sedge/sphagnum over compact till

Soil Depth in: <14 - <20 Soil Texture/Drainage: Poorly drained mucky silt
loams and silt loams

Potential of Mass Failure: Low

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-20-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Low to moderate decay. No fluting or mistletoe noted. Some
wind damage noted. No cedar decline noted.

Species Composition (trees 5+" DBH): 50-60 %WH %MH 40-50 %AC %SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants variable
vigor; codoms. variable, hemlock more decadent; intermediates good in gaps.

Ave. Height: 95-105ft. Basal Area: 360 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 18 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 50-75% vaccinium, <5-10% rusty. Vaccinium height 3-4 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 202 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Restrict harvest to slopes less than 75 percent.

Partial suspension required. Meets visual quality objectives.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Adams Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of oversteepened soils. Retain cedar across landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to anticipated lack of cedar regeneration with this method. Clearcut/reserves is feasible for regeneration, but will likely not result in adequate cedar regeneration. Seed tree cut best meets objective of ensuring cedar remains a component in regenerating stand. Objective of high canopy retention will not be met.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar seed trees per acre, within groups left between yarding corridors. To the extent possible, protect existing cedar advanced regeneration. Orient leave trees to minimize blowdown risk, where possible to do so.

Prepared By: William R. DouganDate: 11/ 13/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 13/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 3063 of the NW Baranof Timber SaleSTAND #249,250,422 VCU 292 MANAGEMENT AREA C41ACRES 7 Determined How: GIS By Whom: M. Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 30 Photo #'s 115Scale: 1:120001/4 Quad ID: Sitka B5NESITE CHARACTERISTICS:Elevation: 200 to 400 ft. Aspect: NE to E Slope: 50 to 60 %
Landform: Broken mountainslopes and hillslopes nPlant Association: Western hemlock-Alaska yellow cedar/blueberry and mixed conifer/blueberrySite Index (Farr 50 yr.): 48Soil: 3663C, 3677BParent Material: Compact till and organics derived from sedge/sphagnumSoil Depth in: <20 - >51 Soil Texture/Drainage: Very poorly drained to poorly drained silt loams, mucky silt loams and peat.Potential of Mass Failure: ModerateSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 6-21-94Stand History: Wind processes are the primary disturbance agentPotential Windthrow Hazard: LowDamaging Agents: Moderate defect. No fluting or mistletoe noted. Some cedar decline noted.Species Composition (trees 5+\" DBH): 25-30 %WH %MH 55-60 %AC 10-20%SSStand Structure: Uneven aged stand with 3 canopy layers. Dominants scattered, decadent; codoms. variable form/vigor; intermediate cedar with good vigor.Ave. Height: 95-105ft. Basal Area: 280 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+\" DBH): 14-16in. Ave. TPA (trees 5+\" DBH): Ground Cover: 50-90% vaccinium, <5-10% rusty. Vaccinium height 3-4 ft.Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 177 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Cable yarding specified. Some small areas of wet, oversteepened and unstable soils. Full suspension recommended. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Adams Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of unstable and oversteepened soils. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to decadence of stand and likelihood of inadequate cedar regeneration with this method. Seed tree cut is feasible, though lack of vigorous dominant cedar seed trees makes this method difficult to implement. Clearcut/reserves is feasible for regenerating stand, but will require planting to ensure cedar regeneration. Canopy objective will not be met.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around edges of unit or in groups between yarding corridors. In addition, retain up to 6 trees per acre (live cull preferred) for structure and sources of future snags. Retain in groups between yarding corridors. Orient leave trees to minimize blowdown risk, where possible to do so. Plan on planting cedar to ensure it remains a component in regenerating stand.

Prepared By: William R. DouganDate: 11/ 13/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 13/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 3111 of the NW Baranof Timber SaleSTAND #286,287,288 VCU 292 MANAGEMENT AREA C41ACRES 12 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 31 Photo #'s 36Scale: 1:120001/4 Quad ID: Sitka B5NESITE CHARACTERISTICS:Elevation: 650 to 1000 ft. Aspect: SW to Slope: 30 to 55 %Landform: Smooth, frequently dissected, deeply incised mountainslopes and broken mountainslopes and hillslopesPlant Association: Western hemlock-Alaska yellow cedar/blueberry and mixed conifer/blueberrySite Index (Farr 50 yr.): 60Soil: 3125E, 3674B, 3695CParent Material: Colluvium, residuum, and organics derived from sedge/sphagnumSoil Depth in: <20 - >51 Soil Texture/Drainage: Very poorly drained to well drained peat, sandy loams and silt loamsPotential of Mass Failure: Low to highSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 6-21-94Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: ModerateDamaging Agents: Moderate decay. No fluting or mistletoe noted. Cedar decline evident.Species Composition (trees 5+\" DBH): 20 %WH 10 %MH 70 %AC %SSStand Structure: Uneven aged stand with 3 canopy layers. Dominants/codoms. are decadent; intermediates scattered, variable vigor.Ave. Height: 80-95 ft. Basal Area: 400 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+\" DBH): 14-16in. Ave. TPA (trees 5+\" DBH): Ground Cover: 50-90% vaccinium, <5-10% rusty and copperbush. Vaccinium height 3-4 ft.Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 303 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Helicopter yarding required. Small areas of oversteepened or unstable soils are present; protect soils by full suspension. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Adams Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of oversteepened and unstable soils. Retain cedar across landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/management of shade tolerant species. Group selection not considered due to anticipated lack of cedar regeneration with this method. Clearcut/reserves is feasible for regeneration, but will likely not result in adequate cedar regeneration. Seed tree cut best meets objective of cedar regeneration. Canopy objective will not be met.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar seed trees per acre, either scattered through the unit or left in small groups in the unit. Orient leave trees to minimize blowdown risk, where possible to do so. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 13/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 13/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 3112 of the NW Baranof Timber SaleSTAND #283,285,286, VCU 292 MANAGEMENT AREA C41
287ACRES 6 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 31 Photo #'s 36Scale: 1:120001/4 Quad ID: Sitka B5NESITE CHARACTERISTICS:Elevation: 350 to 700 ft. Aspect: SW to Slope: 50 to 75 %Landform: Smooth, frequently dissected, deeply incised mountainslopes and
broken mountainslopes and hillslopesPlant Association: Western hemlock/blueberrySite Index (Farr 50 yr.): 59Soil: 3125E, 3651D, 3674BParent Material: Colluvium, residuum, and organics derived from sedge/sphagnumSoil Depth in: <14 - >51 Soil Texture/Drainage: Very poorly drained to
moderately well drained silt loams, sandy loams and peat.Potential of Mass Failure: Moderate to highSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 6-21-94Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: ModerateDamaging Agents: Low to moderate decay. No fluting or mistletoe noted.Species Composition (trees 5+\" DBH): 70 %WH 20 %MH 10 %AC SSStand Structure: Uneven aged stand with 3 canopy layers. Dominants decadent,
some mortality; codoms. better form/vigor; intermediates good form in gaps.Ave. Height: 115-120ft Basal Area: 400 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+\" DBH): 18 in. Ave. TPA (trees 5+\" DBH):Ground Cover: 50-90% vaccinium, <5-5% rusty and devil's club. Vaccinium height
3-4 ft.Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 151 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Helicopter yarding required. Recent large slide and two older slumps in sur-
rounding area indicate potential soil movement to Adams Creek. Large v-notches
should be protected. Soil scientist requested during layout. Within visual
quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Adams Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of unstable soils and v-notches. Retain cedar across landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to likelihood of inadequate cedar regeneration with this method. Clearcut/reserves is feasible for regeneration, but will likely not result in adequate cedar regeneration. Seed tree cut best meets cedar regeneration objective. Canopy retention objective will not be met.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar trees per acre as seed trees, either scattered through the unit or left in small groups in the unit. Orient leave trees to minimize blowdown risk, where possible to do so. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 13/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 13/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 3132 of the NW Baranof Timber Sale

STAND #293,294,295 VCU 292 MANAGEMENT AREA C41

ACRES 20 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 31 Photo #'s 36

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 300 to 1100 ft. Aspect: NW to Slope: 55 to 85+ %

Landform: Undifferentiated mountainslopes, smooth, frequently dissected, shallowly incised mountainslopes and mountainslope ravines

Plant Association: Western hemlock/blueberry on lower slopes, mountain hemlock/blueberry on upper slopes

Site Index (Farr 50 yr.): 92

Soil: 3002E, 3225D, 3779E

Parent Material: Colluvium and residuum

Soil Depth in: <10 - >40 Soil Texture/Drainage: Moderately well drained to well drained silt loams and sandy loams

Potential of Mass Failure: High

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-22-94

Stand History: Slide processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 45 %WH %MH 45 %AC 10 %SS

Stand Structure: Uneven aged stand with 3 canopy layers. Cedar confined to lower slopes. Dominants/codoms. fairly decadent; intermed. cedar with good vigor.

Ave. Height: 120-125ft Basal Area: 440 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 22 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 75-100% vaccinium cover, 5-10% rusty and devil's club, some salmonberry in swales. Vaccinium height 3-5 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 587 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Class III stream on W boundary needs to be protected. Portion of unit is within extreme soil mass movement zone. Place E boundary at or above slope break of Class III stream and protect stream.

Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Adams Creek drainage to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of unstable soils and v-notches.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves is feasible for regeneration, but will not meet canopy retention objective. Group selection best meets regeneration and canopy retention goals, while offering maximum protection of unstable soils areas.

RECOMMENDED TREATMENT:

Recommended treatment is group selection. This will result in a multi-storied multi-aged stand with high canopy retention. Harvest up to 20% of unit in groups up to 1-2 acres in size this entry; plan for cutting cycle of 40-50 years with up to 20% removal each cutting cycle. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 13/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 13/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 3141 of the NW Baranof Timber Sale

STAND #297,317 VCU 292 MANAGEMENT AREA C41

ACRES 32 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 31 Photo #'s 37

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 300 to 800 ft. Aspect: NE to Slope: 55 to 75+ %
Landform: Broken mountainslopes and hillslopes n

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 91

Soil: 3657D, 3674B, 3694C

Parent Material: Colluvium, residuum, and organics derived from sedge/sphagnum

Soil Depth in: <14 ->40 Soil Texture/Drainage: Very poorly drained to well drained mucks, peat, and sandy loams

Potential of Mass Failure: Moderate to high

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-22-94

Stand History: Wind and slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted. Pini common in hemlock.

Species Composition (trees 5+" DBH): 75 %WH %MH %AC 25 %SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants with high cull; codoms variable form/vigor; intermediates best form in gaps, poor in shade

Ave. Height: 115-125ft Basal Area: 320 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 22 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 40-90% vaccinium cover, 5-15% rusty and devil's club. Vaccinium height 3-4 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 945 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Small areas of unstable or wet soils are present. Mark and protect channels along north boundary and channel that bisects the unit. Unit as planned does not meet visual quality objective. Adjust boundary to reduce apparent size, screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Adams Creek drainage and in Rodman Bay area to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of unstable/wet soils. Retain cedar across landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to anticipated lack of cedar regeneration with this method. Clearcut/reserves is feasible for regeneration, but will likely not result in adequate cedar regeneration. Seed tree cut is favorable for cedar regeneration, but will not meet canopy retention objective.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar seed trees per acre, either scattered through the unit or left in small groups in the unit. Orient leave trees to minimize blowdown risk, where possible to do so, as well as to better meet visual concerns.

Prepared By: William R. Dougan

Date: 11/ 13/ 95

Certified By: William R. Dougan
Certified Silviculturist

Date: 11/ 13/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 3142 of the NW Baranof Timber Sale

STAND #297,317,318 VCU 292 MANAGEMENT AREA C41

ACRES 54 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 31 Photo #'s 37

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 200 to 1150 ft. Aspect: E to SE Slope: 35 to 75 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock - yellow cedar/blueberry and Western hemlock/blueberry

Site Index (Farr 50 yr.): 60

Soil: 3663C, 3670C

Parent Material: Compact till, decomposed organics and colluvium and residuum.

Soil Depth in: <20 Soil Texture/Drainage: Shallow, somewhat poorly drained mineral soils over compact till; Shallow, very poorly drained organic soils; shallow, well drained mineral soils overlying bedrock.

Potential of Mass Failure: Low to moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 8-20-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate amount of decay. No fluting or mistletoe noted.

Species Composition (trees 5+" DBH): 95 %WH %MH 5 %AC %SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Dominant spruce good form, H/C defective; codoms. variable form/vigor; intermed. generally good form

Ave. Height: 115-125ft Basal Area: 320sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 18 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 5-15% devil's club and rusty menziesia, 40-100% vaccinium. Vaccinium height 3-5 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 1601 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit is dissected and contains oversteepened slopes. Directionally fall away from v-notches. Recommend no harvest on slopes greater than 75 percent. Unmapped Class III channel along S boundary should be protected. Meets visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Adams Creek drainage and Rodman Bay area to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of oversteepened slopes and v-notches.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include overstory removal and group selection. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of vigorous cedar component in stand. Clearcut/reserves not considered due to concern over meeting visual objective. Group selection is feasible, but will not take advantage of existing understory/midstory advanced regeneration. Overstory removal will meet objective of moderate canopy retention for visuals, as well as provide for retaining structure through releasing understory/midstory.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees greater than 18" DBH for structure as well as to release for future growth. Protect non-merchantable advanced regeneration to the extent possible. Helicopter yard. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. DouganDate: 11/ 13/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 13/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 3143 of the NW Baranof Timber Sale

STAND #133,317,321 VCU 292 MANAGEMENT AREA C41

ACRES 28 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 31 Photo #'s 37

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 150 to 950 ft. Aspect: SE to SE Slope: 50 to 80+ %

Landform: Mountainslopes with avalanching; broken mountainslopes and hillslopes; mountainslope ravines; alluvial fan

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 89

Soil: 3002E, 3657D, 3779E, 5261B

Parent Material: Colluvium and residuum; organics; ablation till; alluvial sands

Soil Depth in: <20-40+ Soil Texture/Drainage: Shallow to deep, well drained mineral soils over bedrock; deep, somewhat poorly to well drained mineral soils; very shallow, well drained organic soils; somewhat poorly drained alluvial soil.

Potential of Mass Failure: Low to extreme

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 8-20-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Decay low to moderate. No fluting or mistletoe noted.

Species Composition (trees 5+ DBH): 100 %WH %MH %AC %SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Open stand with dominants declining; codoms. generally more vigorous; intermed. good vigor in gaps

Ave. Height: 110-115ft Basal Area: 200sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+ DBH): 16-18in. Ave. TPA (trees 5+ DBH):

Ground Cover: <5-15% devil's club and rusty menziesia, 40-100% vaccinium, some salmonberry in wetter areas. Vaccinium height 4-6 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 794 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit contains v-notches and oversteepened areas. Harvesting not recommended on slopes greater than 75 percent. Place N boundary at or above slope break of unmapped Class III channel. Class I channel at base of unit will need an extended buffer due to extreme soil mass movement hazard. Boundary should be located on stable soils above slope break. Channel on S boundary should receive an extended buffer. Protect unmapped Class III channel that bisects the unit. Visual quality objective met.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Rodman Bay area, particularly above existing harvest units, to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of oversteepened soils and v-notches. Minimize negative impacts to visual quality objective.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include overstory removal and group selection. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves not considered due to not meeting canopy retention objective and failure to utilize existing advance regeneration with this method. Group selection is feasible, but fails to utilize existing advance regeneration. Overstory removal will meet objective of utilizing advance regeneration in regenerating stand, and will meet moderate canopy retention objective for visual quality.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees up to 18" DBH and protect non-merchantable advance regeneration. Helicopter yard. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. DouganDate: 11/ 13/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 13/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 3151 of the NW Baranof Timber Sale

STAND #133,181,203 VCU 292 MANAGEMENT AREA _____

ACRES 46 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 32 Photo #'s 193

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: _____ to _____ ft. Aspect: NE to SE Slope: 65 to 90+ %

Landform: Broken mountainslopes and hillslopes, mountainslope ravines, and frequently dissected footslopes and alluvial fans

Plant Association: Sitka spruce-mountain hemlock/blueberry and Western hemlock/blueberry

Site Index (Farr 50 yr.): 65

Soil: 3651D, 3662C, 3779E, 5261B

Parent Material: Colluvium, residuum, organics, alluvial silts and sands

Soil Depth in: <10 - >60 Soil Texture/Drainage: Poorly drained to well drained sandy loams, silt loams, and silts

Potential of Mass Failure: High

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-1-94

Stand History: Slide processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 55-60 %WH 20-25 %MH %AC 20-25%SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants decadent; codoms. decadent, spruce better than hemlock; intermed. generally poor vigor.

Ave. Height: 120-130ft Basal Area: 360 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 22-24in. Ave. TPA (trees 5+\" DBH): _____

Ground Cover: 40-90% vaccinium, <5-10% rusty, salmonberry in notches. Vaccinium height 3-4 ft.

Total Net Sawlog Vol/Acre: _____ MBF

Total Unit Vol: 1248 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Oversteep and unstable areas have been deleted.

Recommend directional falling away from v-notches. Class II channel at base of unit should be protected. Unmapped Class III channel on S boundary should be protected. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Provide for a variety of horizontal and vertical forest structure across the landscape. Retain cedar and spruce across the landscape where they occur. Protect oversteepened slopes and v-notches.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to decadence of stand and economics of long-term management with this method. Clearcut/reserves is feasible for regeneration, but may not result in adequate spruce regeneration. Seed tree cut will meet spruce regeneration objective, and will provide for a variety of forest structure across the landscape.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 6-8 spruce seed trees per acre, either scattered through the unit (preferred) or in small groups through the unit. Narrow ridges between close v-notches may present opportunities for leaving groups of seed trees. Orient leave trees to minimize blowdown, where possible to do so. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 13/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 13/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 3201 of the NW Baranof Timber SaleSTAND #133,156,202, VCU 292 MANAGEMENT AREA C41
358ACRES 17 Determined How: GIS By Whom: M. Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 32 Photo #'s 194Scale: 1:120001/4 Quad ID: Sitka B5NESITE CHARACTERISTICS:Elevation: 1000 to 1300 ft. Aspect: SW to NW Slope: 50 to 75 %Landform: Smooth, frequently dissected, shallow incised mountainslopes; broken mountainslopes and hillslopes; mountainslope ravinePlant Association: Western hemlock/blueberry and Western hemlock/blueberry - devil's clubSite Index (Farr 50 yr.): 84Soil: 3225E, 3670C, 3779EParent Material: Colluvium and residuum; organics from sedge and sphagnumSoil Depth in: <20 - >40 Soil Texture/Drainage: Shallow, very poorly drained organic soils; deep, well drained mineral soils; very shallow, well drained organic soils; shallow well drained mineral soils overlying bedrockPotential of Mass Failure: Low to extremeSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 8-18-93Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: ModerateDamaging Agents: Low to moderate decay. No fluting or mistletoe noted.Species Composition (trees 5+\" DBH): 70 %WH %MH %AC 30 %SSStand Structure: Uneven-aged stand with 3 canopy layers. Dominant spruce good form, hemlock high defect; codoms. decent form; intermediates good form/crownsAve. Height: 120-125ft Basal Area: 240sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+\" DBH): 20-22in. Ave. TPA (trees 5+\" DBH): Ground Cover: 5-15% rusty menziesia and devil's club, 15-60% vaccinium, small amount of salmonberry through unit. Vaccinium height 2-3 ft.Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 462 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Helicopter yarding required. Small oversteepened areas in unit. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Rodman Bay area for visuals and to provide a variety of horizontal and vertical structure across the landscape. Protect oversteepened soils and v-notches. Retain and release advance regeneration.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include overstory removal and clearcut/reserves. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection not considered due to decadence of stand and economics of long-term management with this method. Clearcut/reserves is feasible for regeneration, but will destroy advance regeneration. Overstory removal best meets objectives of protecting advance regeneration, visuals, and canopy retention.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees up to 18" DBH. Protect non-merchantable advance regeneration where possible. Helicopter yard. Rely on natural regeneration to fill in gaps created by harvest.

Prepared By: William R. DouganDate: 11/ 13/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 13/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 3223 of the NW Baranof Timber Sale

STAND #409,410 VCU 292 MANAGEMENT AREA C41

ACRES 8 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 32 Photo #'s 194

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: _____ to _____ ft. Aspect: E to NE Slope: 20 to 60 %
Landform: Smooth, frequently dissected mountainslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 65

Soil: 3551D

Parent Material: Colluvium and residuum

Soil Depth in: <20 Soil Texture/Drainage: Moderately well drained
sandy loams and gravelly loams

Potential of Mass Failure: Low

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-28-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Low

Damaging Agents: Low to moderate decay. No fluting noted. Light mistletoe
noted.

Species Composition (trees 5+" DBH): 85 %WH _____ %MH _____ %AC 15 %SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants large H/SS,
decadent; codoms. better form; intermediates healthy

Ave. Height: 110-130ft Basal Area: 360 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 30 in. Ave. TPA (trees 5+" DBH): _____

Ground Cover: 10-40% vaccinium cover, 5-15% rusty, devil's club, salmonberry.
Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: _____ MBF Total Unit Vol: 234 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Small oversteepened, unstable, wet areas are
located in the unit. Class III channel along E boundary should be protected by
placing boundary at or above slope break. Maintain W boundary at or above
slope break into v-notch. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Rodman Creek drainage and Rodman Bay area to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of oversteep/unstable soils and v-notches. Retain advance regeneration where possible.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves, group selection and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves and group selection are feasible to meet regeneration needs, but these methods will not protect advance regeneration and may delay achieving adequate stocking due to competition and wetness of site. Overstory removal will retain existing stocking and meet canopy retention objective.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees up to 18" DBH. Protect advance regeneration as well as non-merchantable to the extent possible. Helicopter yard. Rely on natural regeneration to fill in gaps created by harvest. Recognize that regeneration will be slow due to competition and wet soils.

Prepared By: William R. DouganDate: 11/ 14/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 14/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 3224 of the NW Baranof Timber Sale

STAND #182,408,409 VCU 292 MANAGEMENT AREA C41

ACRES 10 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 32 Photo #'s 194

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 450 to 600 ft. Aspect: E to NE Slope: 50 to 90 %
Landform: Smooth, infrequently dissected mountainslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 65

Soil: 3551D

Parent Material: Colluvium and residuum

Soil Depth in: <20 Soil Texture/Drainage: Moderately well drained
sandy loams and gravelly loams

Potential of Mass Failure: Low

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-28-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Low

Damaging Agents: Low decay. No fluting or mistletoe noted.

Species Composition (trees 5+" DBH): 70 %WH %MH %AC 30 %SS

Stand Structure: Storied stand with 2 canopy layers. Dominants are large and
generally good form; codoms. have full crowns. Very few intermediates.

Ave. Height: 100-110ft Basal Area: 360 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 22 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 60-80% vaccinium, 5% rusty and devil's club. Vaccinium height
2-3 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 252 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit contains some wet areas. Class III channel
along W boundary needs to be protected. Place boundary at or above slope break.
Maintain E boundary at or above slope break into v-notch. Within visual quality
objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Rodman Creek drainage and Rodman Bay area to provide a variety of horizontal and vertical forest structure across the landscape. Protect wet areas and v-notches.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in the stand. Group selection is feasible, though heavy vegetative competition may preclude adequate regeneration due to less disturbance with this method. Clearcut/reserves is feasible for regeneration. Canopy retention objective will not be met.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre, either scattered through the unit if safety allows, or around unit edges. In addition retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be scattered through the unit or left in small groups in the unit. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 14/ 95

Certified By:

William R. Dougan
Certified Silviculturist

Date: 11/ 14/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 3281 of the NW Baranof Timber Sale

STAND #376,377,402 VCU 292 MANAGEMENT AREA C41

ACRES 25 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 33 Photo #'s 192

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 1000 to 1500 ft. Aspect: SW to W Slope: 35 to 45 %
Landform: Rounded alpine summits and broken mountainslopes and hillslopes

Plant Association: Mixed conifer/blueberry

Site Index (Farr 50 yr.): 47

Soil: 1204B, 3695C

Parent Material: Residuum, organics derived from sedge/sphagnum, colluvium

Soil Depth in: <20 - >40 Soil Texture/Drainage: Very poorly drained to well drained peat, sandy loams and gravelly loams

Potential of Mass Failure: Low to moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-27-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+ " DBH): 20 %WH 40 %MH 20 %AC 20 %SS

Stand Structure: Uneven aged stand with 3 canopy layers. Open stand, dominants declining; codoms. less decadent; intermediates variable form/vigor.

Ave. Height: 70-90 ft. Basal Area: 200 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+ " DBH): 20 in. Ave. TPA (trees 5+ " DBH):

Ground Cover: 5-30% vaccinium, 5-10% rusty. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 631 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit contains some oversteep, wet areas, and v-notches. Directionally fall away from notches. Protect shallow, rocky areas from harvest. N boundary borders a Class III channel. Another unmapped stream bisects the S 1/3 of unit. Protect these streams. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Rodman Bay area to provide a variety of horizontal and vertical structure across the landscape. Protect areas of oversteep and wet soils, and v-notches. Retain advance regeneration for stocking and visuals.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include seed tree cut and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Clearcut/reserves and group selection not considered due to lack of protection of advance regeneration with these methods. Seed tree cut is feasible, as cedar is a component of stand, but will not meet canopy retention objective. Overstory removal will retain advance regeneration and will meet canopy retention objective.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees up to 16" DBH. Protect advance regeneration and non-merchantable trees to the extent possible. Helicopter yard. Rely on natural regeneration to fill in gaps created by harvest.

Prepared By: William R. DouganDate: 11/ 14/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 14/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 3291 of the NW Baranof Timber Sale

STAND #372,380,383

VCU 292

MANAGEMENT AREA C41

ACRES 10 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 34 Photo #'s 194

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 200 to 700 ft. Aspect: NW to N Slope: 35 to 60 %

Landform: Smooth, infrequently dissected mountainslopes and broken mountain-slopes and hillslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 99

Soil: 3521D, 3645C

Parent Material: Colluvium and residuum

Soil Depth in: >40 Soil Texture/Drainage: Somewhat poorly drained to moderately well drained silt loams and loams

Potential of Mass Failure: Low to moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-27-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted. No cedar decline noted.

Species Composition (trees 5+\" DBH): 65-70%WH %MH 30-35%AC %SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants beginning to break up; codoms. with moderate damage; intermediates best in canopy gaps.

Ave. Height: 80-90 ft. Basal Area: 200 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 12-16in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 15-40% vaccinium, <5% rusty. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 298 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit is dissected. Recommend directional falling away from v-notches. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Rodman Bay area to provide a variety of horizontal and vertical structure across the landscape. Protect v-notches. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to lack of anticipated cedar regeneration with this method. Clearcut/reserves is feasible, but will likely not meet cedar regeneration objective. Seed tree cut will result in cedar regeneration, but will not meet canopy retention objective.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar trees per acre as seed trees. Trees may be scattered through the unit or left in small groups in the unit. Narrow ridges between close v-notches may present opportunities for leaving groups of seed trees. Orient leave trees to minimize blowdown risk, where possible to do so.

Prepared By: William R. DouganDate: 11/ 14/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 14/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 3301 of the NW Baranof Timber SaleSTAND #387,389 VCU 292 MANAGEMENT AREA C41ACRES 39 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1987 Flight Line 35 Photo #'s 212Scale: 1:120001/4 Quad ID: Sitka B5NESITE CHARACTERISTICS:Elevation: _____ to _____ ft. Aspect: N to NE Slope: 40 to 60 %
Landform: Broken mountainslopes and hillslopesPlant Association: Western hemlock-Alaska yellow cedar/blueberrySite Index (Farr 50 yr.): 80Soil: 3647CParent Material: Compact tillSoil Depth in: <20 Soil Texture/Drainage: Somewhat poorly drained
mucky silt loamPotential of Mass Failure: Low to moderateSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 6-30-94Stand History: Wind processes are the primary disturbance agentPotential Windthrow Hazard: ModerateDamaging Agents: Moderate decay. No fluting or mistletoe noted. Minor cedar
decline noted.Species Composition (trees 5+\" DBH): 65-70 %WH _____ %MH 15-20 %AC 15-20 %SSStand Structure: Uneven aged stand with 4 canopy layers. Upper layers decadent
with some mortality; intermediate layers in better shape.Ave. Height: 80-90 ft. Basal Area: 240 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+\" DBH): 16-20 in. Ave. TPA (trees 5+\" DBH): _____Ground Cover: 30-70% vaccinium, 5-10% rusty. Vaccinium height 3-4 ft.Total Net Sawlog Vol/Acre: _____ MBF Total Unit Vol: 1158 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Cable yarding specified. Unit contains some wet soils and small slumps. Recom-
mend partial suspension. Place N boundary at or above slope break of channel.
Protect two v-notches in S 1/2 of unit; require slash removal following harvest.
Unit as planned does not meet visual quality objective. Adjust boundary to
reduce apparent size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Rodman Bay area to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of wet soils and v-notches. Retain cedar across the landscape where it occurs. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to anticipated lack of cedar regeneration with this method. Clearcut/reserves is feasible for regeneration and disturbance of heavy brush layer, but will likely not result in adequate cedar regeneration. Seed tree cut will likely result in adequate cedar regeneration, and should disturb heavy brush layer sufficiently to allow for regeneration. Canopy retention objective will not be met.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar seed trees per acre, either scattered through unit or (more likely) grouped in small groups through the unit between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 14/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 14/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 3302 of the NW Baranof Timber Sale

STAND #387

VCU 292

MANAGEMENT AREA C41

ACRES 20 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1987 Flight Line 35 Photo #'s 212

Scale: 1:12000

1/4 Quad ID: Sitka B4NW

SITE CHARACTERISTICS:

Elevation: _____ to _____ ft. Aspect: N to _____ Slope: 20 to 60 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock-Alaska yellow cedar/blueberry

Site Index (Farr 50 yr.): 79

Soil: 3647C, 3658D, 3663C

Parent Material: Compact till

Soil Depth in: <20-40 Soil Texture/Drainage: Somewhat poorly drained to moderately well drained mucky silt loams and silt loams

Potential of Mass Failure: Low

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-30-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Low to moderate decay. No fluting or mistletoe noted. No cedar decline noted.

Species Composition (trees 5+\" DBH): 40-45 %WH _____ %MH 40-45 %AC 10-15%SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants/codoms. are generally healthy with good form; intermediates beginning to release in gaps.

Ave. Height: 90-100ft. Basal Area: 280 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 16-18in. Ave. TPA (trees 5+\" DBH): _____

Ground Cover: 20-50% vaccinium cover, 5-10% rusty, devil's club and salmonberry. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: _____ MBF Total Unit Vol: 596 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Unit contains some wet soils and blowdown. Recommend at least partial suspension. Place S boundary at or above slope break of unmapped channel. Unit as planned does not meet visual quality objective. Adjust boundary to reduce apparent size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Rodman Bay area to provide a variety of horizontal and vertical forest structure across the landscape. Protect wet soils and v-notches. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to anticipated lack of cedar regeneration with this method. Clearcut/reserves is feasible for regeneration, but will likely not meet cedar regeneration objective. Seed tree cut will meet cedar regeneration objective, but will not meet canopy retention objective.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar trees per acre either scattered through the unit or (more likely) in small groups through the unit between yarding corridors. Orient leave trees to minimize blowdown risk, where feasible to do so. Cable yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 14/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 14/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 3303 of the NW Baranof Timber Sale

STAND #386,387,389 VCU 292 MANAGEMENT AREA C41
132,133 293

ACRES 30 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1987 Flight Line 35 Photo #'s 212
Scale: 1:12000
1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: _____ to _____ ft. Aspect: N to NW Slope: 40 to 65 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock-Alaska yellow cedar/blueberry

Site Index (Farr 50 yr.): 39

Soil: 3647C, 3677B

Parent Material: Compact till and organics derived from sedge/sphagnum

Soil Depth in: <20 - >51 Soil Texture/Drainage: Very poorly drained to some-
what poorly drained peat, silt loams, and mucky silt loams.

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-30-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted. No cedar de-
cline noted.

Species Composition (trees 5+\" DBH): 40-45 %WH _____ %MH 40-45 %AC 10-15%SS

Stand Structure: Uneven aged stand with 4 canopy layers. Overstory layers not
vigorous, poor form; Intermediate layers best in gaps, poor under canopy shade.

Ave. Height: 60-70 ft. Basal Area: 360 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 16-18in. Ave. TPA (trees 5+\" DBH): _____

Ground Cover: 30-70% vaccinium, 10-15% rusty. Vaccinium height 3 ft.

Total Net Sawlog Vol/Acre: _____ MBF Total Unit Vol: 798 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Minimum of partial suspension recommended. Unit as
planned does not meet visual quality objective. Adjust boundary to reduce
apparent size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU's 292 and 293 have been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Rodman Bay area to provide a variety of horizontal and vertical forest structure across the landscape. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to anticipated lack of cedar regeneration with this method. Clearcut/reserves is feasible for regeneration, but will likely not meet cedar regeneration objective. Seed tree cut will meet cedar regeneration objective, but will not meet canopy retention objective.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar seed trees per acre, either scattered through the unit or (more likely) in small groups in unit between yarding corridors. Orient leave trees to minimize blowdown risk, where possible to do so. Cable yard. Rely on natural regeneration.

Prepared By: William R. Dougan

Date: 11/ 14/ 95

Certified By: William R. Dougan
Certified Silviculturist

Date: 11/ 14/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 3304 of the NW Baranof Timber Sale

STAND #387,391, VCU 292 MANAGEMENT AREA C41
123 293

ACRES 32 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1987 Flight Line 35 Photo #'s 212
Scale: 1:12000
1/4 Quad ID: Sitka B4NW

SITE CHARACTERISTICS:

Elevation: _____ to _____ ft. Aspect: N to E Slope: 25 to 40 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock-Alaska yellow cedar/blueberry

Site Index (Farr 50 yr.): 69

Soil: 3625D, 3643B, 3658D, 3663C

Parent Material: Colluvium, residuum, sedge/sphagnum over compact till

Soil Depth in: <14 - >20 Soil Texture/Drainage: Poorly drained to well
drained mucky silt loams and silt loams

Potential of Mass Failure: Low to moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-30-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted. No cedar de-
cline noted.

Species Composition (trees 5+\" DBH): 80 %WH %MH 20 %AC %SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants/codoms. are
generally healthy, but poor form; intermediates mostly found in gaps.

Ave. Height: 80-90 ft. Basal Area: 200 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 16-18in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 10-35% vaccinium, 10% rusty. Vaccinium height 3-4 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 872 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Unit contains some wet areas. Partial suspension
recommended. Protect v-notch on N boundary. Unit as planned does not meet
visual quality objective. Adjust boundary to reduce apparent size and screen
harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU's 292 and 293 have been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Rodman Bay area to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of wet soils and v-notches. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to anticipated lack of cedar regeneration with this method. Clearcut/reserves is feasible for regeneration, but will likely not meet cedar regeneration objective. Seed tree cut will meet cedar regeneration objective, but will not meet canopy retention objective.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar seed trees per acre, either scattered across the unit or (more likely) in small groups in unit between yarding corridors. Orient leave trees to minimize blowdown risk, where possible to do so. Cable yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 14/ 95

Certified By:

William R. Dougan
Certified Silviculturist

Date: 11/ 14/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 3305 of the NW Baranof Timber Sale

STAND #384,620,621

VCU 292
293

MANAGEMENT AREA C41

ACRES 46 Determined How: GIS By Whom: M. Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 34 Photo #'s 195

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 600 to 800 ft. Aspect: N to Slope: 5 to 75 %
Landform: _____

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): _____

Soil: _____

Parent Material: _____

Soil Depth in: _____ Soil Texture/Drainage: _____

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-28-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Low to moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 70-75 %WH %MH 5-10 %AC 20-25%SS

Stand Structure: Mosaic of uneven aged and even aged patches. Overstory has best form in even aged areas; intermediate layers not well stocked.

Ave. Height: 95-110ft. Basal Area: 280 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 22-26in. Ave. TPA (trees 5+\" DBH): _____

Ground Cover: 50-95% vaccinium, 5-15% rusty. Vaccinium height 3 ft.

Total Net Sawlog Vol/Acre: _____ MBF

Total Unit Vol: 1230 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Unit contains some wet areas. Recommend partial suspension. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Rodman Bay area to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of wet soils. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to yarding system specified and decadence of stand making economics of long-term management questionable with this method. Seed tree cut is feasible, but scattered nature of cedar in stand makes this method impractical. Clearcut/reserves will meet regeneration needs, but will not meet canopy retention objective.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around edges of unit. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees can be either scattered through unit or (more likely) grouped in small groups in unit between yarding corridors. Cable yard. Rely on natural regeneration, but plan on planting cedar at wide spacing to ensure adequate cedar regeneration.

Prepared By: William R. Dougan

Date: 11/ 14/ 95

Certified By: William R. Dougan
Certified Silviculturist

Date: 11/ 14/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 3311 of the NW Baranof Timber SaleSTAND #394,396 VCU 292 MANAGEMENT AREA C41ACRES 26 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1987 Flight Line 36 Photo #'s 80Scale: 1:120001/4 Quad ID: Sitka B4NWSITE CHARACTERISTICS:Elevation: _____ to _____ ft. Aspect: NW to N Slope: 30 to 65 %
Landform: Broken mountainslopes and hillslopes nPlant Association: Western hemlock/blueberry and Western hemlock-Alaska yellow cedar/blueberrySite Index (Farr 50 yr.): 77Soil: 3647C, 3658D, 3663CParent Material: Compact tillSoil Depth in: <20 - 40 Soil Texture/Drainage: Somewhat poorly drained to moderately well drained mucky silt loams and silt loamsPotential of Mass Failure: Low to moderateSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 7-1-94Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: ModerateDamaging Agents: Moderate decay. No fluting noted. Mistletoe infection in 30-40% of hemlock. No cedar decline noted.Species Composition (trees 5+" DBH): 65-70 %WH _____ %MH 15-20 %AC 15-20%SSStand Structure: Uneven aged stand with 3 canopy layers. Dominants/codoms. are decadent, mistletoe-infected; intermediates not well stocked, variable form.Ave. Height: 75-85 ft. Basal Area: 240 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+" DBH): 16-18in. Ave. TPA (trees 5+" DBH): _____Ground Cover: 15-40% vaccinium, 5-20% devil's club and rusty. Vaccinium height 2-3 ft.Total Net Sawlog Vol/Acre: _____ MBF Total Unit Vol: 748 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Cable yarding specified. Recommend partial suspension to minimize surface disturbance. Protect v-notch on SW boundary. Unit as planned does not meet visual quality objective. Adjust boundary to reduce apparent size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Rodman Bay area to provide a variety of horizontal and vertical forest structure across the landscape. Protect v-notches. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to anticipated lack of cedar regeneration with this method, as well as incompatibility with logging system. Seed tree cut is feasible, but scattered nature of cedar in stand makes this method impractical. Clearcut/reserves will meet regeneration objectives, but will not meet canopy retention objective.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around edges of unit. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may either be scattered through the unit or (more likely) left in small groups in unit between yarding corridors. Cable yard. Rely on natural regeneration, though plan on planting cedar to ensure cedar remains a component of regenerating stand.

Prepared By: William R. DouganDate: 11/ 14/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 14/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 3312 of the NW Baranof Timber Sale

STAND # 394,396 VCU 292 MANAGEMENT AREA C41
114 293

ACRES 34 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1987 Flight Line 36 Photo #'s 80
Scale: 1:12000
1/4 Quad ID: Sitka B4NW

SITE CHARACTERISTICS:

Elevation: _____ to _____ ft. Aspect: N to E Slope: 40 to 70 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 75

Soil: 3658D, 3663C

Parent Material: Compact till

Soil Depth in: <20 - 40 Soil Texture/Drainage: Poorly drained to moderately well drained mucky silt loams and silt loams

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-1-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 80-85%WH %MH _____ %AC 15-20SS

Stand Structure: Uneven aged stand with 3 canopy layers. Overstory beginning to break up, decadent; smaller codoms./intermediates filling in, good form.

Ave. Height: 80-90 ft. Basal Area: 240 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 18-20in. Ave. TPA (trees 5+\" DBH): _____

Ground Cover: 15-60% vaccinium, 5-15% rusty. Vaccinium cover 2-3 ft.

Total Net Sawlog Vol/Acre: _____ MBF Total Unit Vol: 908 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. No soils concerns. Recommend partial suspension to minimize surface disturbance. Unit as planned does not meet visual quality objective. Adjust boundary to reduce apparent size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU's 292 and 293 have been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Rodman/Appleton area to provide a variety of horizontal and vertical forest structure across the landscape. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but decadence of stand make economics of long-term management impractical. Clearcut/reserves will meet regeneration objective, but will not meet canopy retention objective.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags/acre around edges of unit. In addition, retain up to 6 trees per acre (live cull preferred) for structure and as future snag source. Trees may be either scattered through unit or (more likely) left in small groups through unit between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 14/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 14/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 3313 of the NW Baranof Timber SaleSTAND #391,394 VCU 292 MANAGEMENT AREA C41ACRES 30 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1987 Flight Line 35 Photo #'s 212Scale: 1:120001/4 Quad ID: Sitka B4NWSITE CHARACTERISTICS:Elevation: _____ to _____ ft. Aspect: NW to N Slope: 40 to 55 %
Landform: Broken mountainslopes and hillslopesPlant Association: Western hemlock-Alaska yellow cedar/blueberrySite Index (Farr 50 yr.): 80Soil: 3647CParent Material: Compact tillSoil Depth in: <20 Soil Texture/Drainage: Somewhat poorly drained
mucky silt loamPotential of Mass Failure: Low to moderateSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 7-1-94Stand History: Wind processes are the primary disturbance agentPotential Windthrow Hazard: ModerateDamaging Agents: Moderate decay. No fluting noted. Mistletoe occurrence is
moderate to high, with 60-70% of overstory infected.Species Composition (trees 5+" DBH): 80-85 %WH %MH 15-20 %AC %SSStand Structure: Uneven aged stand with 3 canopy layers. Dominants decadent,
not vigorous; codoms. diseased; intermediates patchy in distribution, diseased.Ave. Height: 80-90 ft. Basal Area: 240 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+" DBH): 20 in. Ave. TPA (trees 5+" DBH): _____Ground Cover: 10-25% vaccinium, 5-20% devil's club and rusty. Vaccinium height
2 ft.Total Net Sawlog Vol/Acre: _____ MBF Total Unit Vol: 849 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Cable yarding specified. No soils concerns. Recommend partial suspension to
minimize surface disturbance. Streams at S and NW boundaries of unit are Class
I just outside boundary, and need to be protected. Class III portions of these
streams and v-notch along N boundary should be protected. Unit as planned does
not meet visual quality objective. Adjust boundary to reduce apparent size and
screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Rodman Bay area to provide a variety of horizontal and vertical forest structure across the landscape. Reduce incidence of mistletoe in stand to improve forest health. Minimize negative visual impacts. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to likelihood of high mistletoe infection continuing with this method. Seed tree cut is feasible, though cedar are scattered and of poor quality. Clearcut/reserves will meet regeneration needs and reduce mistletoe infection. Canopy retention objective will not be met.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition retain up to 6 trees per acre (live cull preferred, though do not select mistletoe-infected hemlock) for structure and future snag sources. Trees may either be scattered through unit or (more likely) left in small groups through the unit, between yarding corridors. Cable yard. Rely on natural regeneration, though plan on planting cedar at wide spacing to ensure it remains a component of regenerating stand.

Prepared By: William R. DouganDate: 11/ 14/ 95Certified By: 
Certified SilviculturistDate: 11/ 14/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 3314 of the NW Baranof Timber Sale

STAND #391,393,394, VCU 292 MANAGEMENT AREA C41
637

ACRES 33 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1987 Flight Line 35 Photo #'s 212
Scale: 1:12000
1/4 Quad ID: Sitka B4NW

SITE CHARACTERISTICS:

Elevation: _____ to _____ ft. Aspect: NW to N Slope: 55 to 65 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock-Alaska yellow cedar/blueberry

Site Index (Farr 50 yr.): 78

Soil: 3647C, 3663C

Parent Material: Compact till

Soil Depth in: <20 Soil Texture/Drainage: Poorly drained to somewhat
poorly drained mucky silt loams and silt loams

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-1-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting noted. Mistletoe is present and
is infecting about 40% of hemlock. No cedar decline noted.

Species Composition (trees 5+" DBH): 85-90 %WH _____ %MH 10-15 %AC _____ %SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants/codoms. are
decadent, diseased, beginning to break up; intermediates better form/health.

Ave. Height: 75-95 ft. Basal Area: 320 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 16-20 in. Ave. TPA (trees 5+" DBH): _____

Ground Cover: 15% vaccinium, 5% rusty. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: _____ MBF Total Unit Vol: 952 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. No soils concerns. Recommend partial suspension to
minimize surface disturbance. Class III stream bisects N 1/2 of unit and needs
to be protected. Unit as planned does not meet visual quality objective.

Adjust boundary to reduce apparent size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Rodman Bay are to provide a variety of horizontal and vertical forest structure across the landscape. Minimize negative visual impacts. Retain cedar across the landscape where it occurs. Reduce mistletoe infection to improve forest health.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/management of shade tolerant species. Group selection not considered due to lack of reduction of mistletoe infection with this method. Clearcut/reserves meets regeneration needs, but will likely result in lack of adequate cedar regeneration. Seed tree cut will meet cedar regeneration objective. Canopy retention objective will not be met.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar seed trees per acre, either scattered through unit or (more likely) left in small groups through the unit between yarding corridors. Orient leave trees to minimize blowdown risk, where possible to do so. Cable yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 14/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 14/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 3315 of the NW Baranof Timber Sale

STAND #391,392,393 VCU 292 MANAGEMENT AREA C41

ACRES 39 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1987 Flight Line 35 Photo #'s 212

Scale: 1:12000

1/4 Quad ID: Sitka B4NW

SITE CHARACTERISTICS:

Elevation: _____ to _____ ft. Aspect: NW to N Slope: 20 to 60 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock/blueberry and Western hemlock-Alaska yellow cedar/blueberry

Site Index (Farr 50 yr.): 80

Soil: 3643B, 3647C, 3658D, 3663C

Parent Material: Compact till and decomposed sedge/sphagnum over compact till

Soil Depth in: <14 - 40 Soil Texture/Drainage: Somewhat poorly drained to moderately well drained mucky silt loams and silt loams

Potential of Mass Failure: Low to moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-1-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting noted. Mistletoe occurrence moderate to high. No cedar decline noted.

Species Composition (trees 5+\" DBH): 65-75 %WH _____ %MH 15-20 %AC 5-15 %SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants/codoms. with good form, though short; intermediates variable form; all layers infected.

Ave. Height: 80-90 ft. Basal Area: 240 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 16-18 in. Ave. TPA (trees 5+\" DBH): _____

Ground Cover: 5-35% vaccinium, 5-15% devil's club and rusty. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: _____ MBF Total Unit Vol: 984 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. No soils concerns. Recommend partial suspension to minimize surface disturbance. Protect v-notch on N boundary and S boundary. Unit as planned does not meet visual quality objective. Adjust boundary to reduce apparent size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 292 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Rodman Bay area to provide a variety of horizontal and vertical forest structure across the landscape. Protect v-notches. Reduce mistletoe infection to improve forest health. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in the stand. Group selection is feasible, but will likely not result in a reduction of mistletoe infection. Clearcut/reserves will meet regeneration needs and will reduce mistletoe infection in regenerating stand. Canopy retention objective will not be met.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around edges of unit. In addition, mark up to 6 trees per acre (live cull preferred, but do not select mistletoe-infected hemlock) for structure and future snag sources. Trees may be left scattered through the unit or (more likely) in small groups through the unit between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. Dougan

Date: 11/ 14/ 95

Certified By: William R. Dougan
Certified Silviculturist

Date: 11/ 14/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 4031 of the NW Baranof Timber Sale

STAND #108,114,115 VCU 288 MANAGEMENT AREA C40

ACRES 32 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 30 Photo #'s 119

Scale: 1:12000

1/4 Quad ID: Sitka B5NW, B5NE

SITE CHARACTERISTICS:

Elevation: 1200 to 1600 ft. Aspect: S to SW Slope: 40 to 60 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Mixed conifer/blueberry

Site Index (Farr 50 yr.): 94

Soil: 3625E

Parent Material: Colluvium and residuum

Soil Depth in: <20 - >40 Soil Texture/Drainage: Moderately well drained
silt loams and sandy loams

Potential of Mass Failure: Low to moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-24-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted. No cedar
decline noted.

Species Composition (trees 5+\" DBH): 40-45 %WH 10-15 %MH 10-15 %AC 20-25%SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants decadent,
some mortality; codoms. variable; intermediates best in gaps, poor under canopy.

Ave. Height: 95-105ft. Basal Area: 360 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 16 in. Ave. TPA (trees 5+\" DBH): _____

Ground Cover: 40-75% vaccinium cover, <5-10% rusty and copperbush. Vaccinium
height 2-3 ft.

Total Net Sawlog Vol/Acre: _____ MBF Total Unit Vol: 808 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. No soils concerns. Unit as planned does not meet
visual quality objective. Adjust boundary to reduce apparent size and screen
harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 288 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain cedar across landscape where it occurs. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to anticipated lack of cedar regeneration with this method. Clearcut/reserves is feasible, but will not meet cedar regeneration objective. Seed tree cut will provide for cedar regeneration. Canopy retention objective will be met by breaking up uniformity of canopy through harvesting.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar seed trees per acre, either scattered through the unit or in groups through the unit. To the extent possible, minimize negative visual impacts by selecting groups of trees to visually screen the harvest area. Helicopter yard. Rely on natural regeneration. Orient leave trees to minimize blowdown risk, where possible to do so.

Prepared By: William R. Dougan

Date: 11/ 14/ 95

Certified By:

William R. Dougan
Certified Silviculturist

Date: 11/ 14/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 4041 of the NW Baranof Timber Sale

STAND #108,114,115 VCU 288 MANAGEMENT AREA C40

ACRES 48 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 30 Photo #'s 119

Scale: 1:12000

1/4 Quad ID: Sitka B5NE

SITE CHARACTERISTICS:

Elevation: 550 to 1100 ft. Aspect: S to SW Slope: 50 to 75+ %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock-Alaska yellow cedar/blueberry

Site Index (Farr 50 yr.): 89

Soil: 3625E, 3639B

Parent Material: Colluvium, residuum and volcanic ash

Soil Depth in: <10 - >40 Soil Texture/Drainage: Poorly drained to moderately well drained silt loams and sandy loams

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-24-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted. No cedar decline noted.

Species Composition (trees 5+\" DBH): 80 %WH %MH 20 %AC %SS

Stand Structure: Uneven aged stand with 3 canopy layers. Overstory with heavy cedar component, hemlock less vigorous; intermediates best in gaps.

Ave. Height: 110-120ft Basal Area: 400sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 14-16in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 35-65% vaccinium, <5-10% rusty. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 1230 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. No soils concerns. Within visual quality objectives.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 288 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Provide for a variety of horizontal and vertical forest structure across the landscape. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to anticipated lack of cedar regeneration with this method. Clearcut/reserves is feasible, but will likely not result in adequate cedar regeneration. Seed tree cut will meet cedar regeneration objective, and will provide for variety in forest structure in this landscape.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar seed trees per acre, either scattered through the unit or left in small groups through the unit. Orient leave trees to minimize risk of blowdown, where possible to do so. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 14/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 14/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 4061 of the NW Baranof Timber SaleSTAND #58,68,94, VCU 288 MANAGEMENT AREA C40
109ACRES 25 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 30 Photo #'s 120Scale: 1:120001/4 Quad ID: Sitka B5NWSITE CHARACTERISTICS:Elevation: 600 to 900 ft. Aspect: N to NE Slope: 40 to 90 %Landform: Smooth, frequently dissected, shallowly incised mountainslopes and broken mountainslopes and hillslopesPlant Association: Western hemlock-Alaska yellow cedar/blueberrySite Index (Farr 50 yr.): 77Soil: 3244C, 3639BParent Material: Volcanic ashSoil Depth in: <10 - >40 Soil Texture/Drainage: Poorly drained to somewhat poorly drained silt loamsPotential of Mass Failure: HighSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 6-24-94Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: ModerateDamaging Agents: Moderate decay. No fluting or mistletoe noted. No cedar decline noted.Species Composition (trees 5+\" DBH): 50 %WH %MH 50 %AC %SSStand Structure: Uneven aged stand with 3 canopy layers. Dominants sparse, poor form; codoms. predominate, not well stocked; intermediates poor form.Ave. Height: 80-90 ft. Basal Area: 160 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+\" DBH): 14 in. Ave. TPA (trees 5+\" DBH): Ground Cover: 10-50% vaccinium, 5-15% rusty with some alder in streams/notches. Vaccinium height 2 ft.Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 631 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Helicopter yarding required. Ensure backline is below very poorly drained soils that are steeper than 45 percent. Remove any debris introduced into v-notches. Protect v-notches that bisect the unit. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 288 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Provide for a variety of horizontal and vertical forest structure across the landscape. Retain cedar across the landscape where it occurs. Protect v-notches.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to anticipated lack of cedar regeneration with this method. Clearcut/reserves is feasible for regeneration, but will likely result in a lack of cedar regeneration. Seed tree cut will meet cedar regeneration objective, and will provide for variety in the forest structure of this landscape.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar seed trees per acre, either scattered through the unit or in small groups left through the unit. Orient leave trees to minimize blowdown risk, where possible to do so. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. Dougan

Date: 11/ 14/ 95

Certified By: William R. Dougan
Certified Silviculturist

Date: 11/ 14/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 4081 of the NW Baranof Timber Sale

STAND #58

VCU 288

MANAGEMENT AREA C40

ACRES 13 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 29 Photo #'s 59

Scale: 1:12000

1/4 Quad ID: Sitka B5NW

SITE CHARACTERISTICS:

Elevation: 400 to 700 ft. Aspect: N to NE Slope: 40 to 60 %
Landform: Smooth, frequently dissected, shallow incised mountainslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 80

Soil: 3244C

Parent Material: Volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: Deep, somewhat poorly drained mineral soil.

Potential of Mass Failure: High

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-18-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Low to moderate amount of decay. No fluting or mistletoe noted

Species Composition (trees 5+\" DBH): 70 %WH %MH 15 %AC 15 %SS

Stand Structure: Storied stand with 3 canopy layers. Dominants scattered, poor vigor; codoms. predominate, generally good form/vigor; intermeds. less vigorous.

Ave. Height: 105-110t. Basal Area: 280 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 20-22in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 5-10% rusty menziesia, 35-65% vaccinium. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 328 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Unit contains some oversteep and unstable soils. Full suspension recommended. Class II fish habitat below unit boundary. Selectively harvest merchantable timber within 75 ft. of lower unit boundary along muskeg to provide a vegetated filter strip and retain root strength at base of steep slope. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 288 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Provide for a variety of horizontal and vertical forest structure across the landscape. Retain cedar across the landscape where it occurs. Protect oversteep and unstable soils.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to lack of cedar regeneration anticipated with this method as well as decadence of stand making economics of long-term management marginal. Seed tree cut is feasible, though lack of vigor in existing cedar will make tree selection difficult. Clearcut/reserves will meet cedar regeneration objective (by planting cedar) and will provide variety of forest structure in this landscape.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre along unit edges. In addition, retain up to 6 trees per acre (live cull preferred, as well as occasional cedar of good form/vigor) for structure, future snag source, and seed source. Trees may be scattered through the unit or (more likely) left in groups through the unit between yarding corridors. Cable yard. Rely on natural regeneration, but plan on planting cedar at wide spacing to ensure cedar remains a component in regenerating stand.

Prepared By: William R. DouganDate: 11/ 14/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 14/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 4082 of the NW Baranof Timber SaleSTAND # 58,90,91 VCU 288 MANAGEMENT AREA C40ACRES 69 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 29 Photo #'s 59Scale: 1:120001/4 Quad ID: Sitka B5NWSITE CHARACTERISTICS:Elevation: 300 to 900 ft. Aspect: NE to NE Slope: 40 to 70 %Landform: Smooth frequently dissected, shallow incised mountainslopes; alluvial fanPlant Association: Western hemlock/blueberry and mixed conifer/blueberrySite Index (Farr 50 yr.): 80Soil: 3244C, 5293BParent Material: Volcanic ash; alluvial sand, silt, and gravel; colluviumSoil Depth in: >40 Soil Texture/Drainage: Deep, somewhat poorly drained mineral soil; very deep, somewhat poorly drained alluvial and colluvial soil.Potential of Mass Failure: Low to highSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 7-18-93Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: ModerateDamaging Agents: Moderate amount of decay. No fluting or mistletoe noted. No cedar decline noted.Species Composition (trees 5+\" DBH): 50 %WH %MH 25 %AC 25 %SSStand Structure: Mosaic stand of hemlock/spruce with inclusions of mixed conifer in wetter areas. Generally decadent overstory; intermeds. more healthy.Ave. Height: 110-120ft Basal Area: 320 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+\" DBH): 22-24in. Ave. TPA (trees 5+\" DBH): Ground Cover: 5-15% rusty menziesia, 40-70% vaccinium. Vaccinium height 2-3 ft.Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 1819 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Unit contains several v-notches, wet areas, and steep slopes near lower boundary. Directionally fall away from notches, remove any debris introduced into notches. Split yard on notches or ensure full suspension across them. Ensure lower boundary is above steep slopes greater than 75 percent. Protect v-notches in unit, as well as Class I stream below unit. Unit as planned does not meet visual quality objective. Adjust boundary to reduce apparent size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 288 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Provide for a variety of horizontal and vertical forest structure across the landscape. Protect wet soils and v-notches. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of significant cedar component in stand. Group selection is feasible, but cable yarding system makes this method difficult to implement; decadence of stand makes economics of long-term management marginal. Clearcut/reserves will meet regeneration needs, but will not minimize negative visual impacts.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be scattered through the unit or (more likely) left in small groups through the unit between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. Dougan

Date: 11/ 14/ 95

Certified By: William R. Dougan
Certified Silviculturist

Date: 11/ 14/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 4083 of the NW Baranof Timber Sale

STAND #58,91,108

VCU 288

MANAGEMENT AREA C40

ACRES 28 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 29 Photo #'s 59

Scale: 1:12000

1/4 Quad ID: Sitka B5NW

SITE CHARACTERISTICS:

Elevation: 400 to 900 ft. Aspect: NE to NE Slope: 40 to 65 %
Landform: Smooth, frequently dissected, shallow incised mountainslopes; alluvial fan

Plant Association: Western hemlock - yellow cedar/blueberry and mixed conifer blueberry

Site Index (Farr 50 yr.): 79

Soil: 3244C, 5293B

Parent Material: Volcanic ash; alluvial sand, silt, and gravel; colluvium

Soil Depth in: >40 Soil Texture/Drainage: Deep, somewhat poorly drained mineral soil; deep, somewhat poorly drained alluvial and colluvial soil.

Potential of Mass Failure: Low to high

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-18-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Low

Damaging Agents: Moderate amount of decay. No fluting or mistletoe noted. No cedar decline noted.

Species Composition (trees 5+" DBH): 25 %WH 10-15 %MH 60-65 %AC %SS

Stand Structure: Mosaic stand of hemlock/cedar with inclusions of mixed conifer in wetter sites. Overstory decadent, defective; intermediate cedar good form.

Ave. Height: 110-115ft Basal Area: 320 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 18-20in. Ave. TPA (trees 5+" DBH):

Ground Cover: 5-15% rusty menziesia, 40-80% vaccinium. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 798 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Ensure backline is above oversteepened areas. Deeper v-notches should be split-yarded with full suspension over other notches.

Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 288 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Provide for a variety of horizontal and vertical forest structure across the landscape. Protect oversteepened soils and v-notches.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of appreciable cedar component in stand. Group selection is feasible, though implementation of this method would be difficult in this terrain and with cable system. Clearcut/reserves will meet regeneration needs, and will provide variety of structure in this landscape.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be either scattered through unit or (more likely) left in small groups through unit between yarding roads. Cable yard. Rely on natural regeneration, though plan on planting cedar at wide spacing to ensure it remains a component in regenerating stand.

Prepared By: William R. DouganDate: 11/ 14/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 14/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 4084 of the NW Baranof Timber SaleSTAND #58,91VCU 288MANAGEMENT AREA C40ACRES 20 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 29 Photo #'s 59

Scale: 1:12000

1/4 Quad ID: Sitka B5NWSITE CHARACTERISTICS:Elevation: 500 to 900 ft. Aspect: NE to NE Slope: 45 to 90 %Landform: Smooth, frequently dissected, shallow incised mountainslope; broken mountainslopes and hillslopesPlant Association: Mixed conifer/blueberrySite Index (Farr 50 yr.): 74Soil: 3244C, 3639BParent Material: Volcanic ashSoil Depth in: <10 - >60 Soil Texture/Drainage: Very shallow, poorly drained mineral soils over compact ash; very deep, somewhat poorly drained alluvial and colluvial soil.Potential of Mass Failure: Low to moderateSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 7-18-93Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: LowDamaging Agents: Moderate amount of decay. No fluting noted. Light mistletoe infection noted. No cedar decline noted.Species Composition (trees 5+" DBH): 30 %WH 10 %MH 60 %AC %SSStand Structure: Uneven-aged stand with 3 canopy layers. Dominants/codoms. decadent, though cedar are generally vigorous; intermed. best in gaps.Ave. Height: 100-105ft Basal Area: 280sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+" DBH): 18 in. Ave. TPA (trees 5+" DBH): Ground Cover: 5-10% rusty menziesia, 25-70% vaccinium. Vaccinium height 2-3 ft.Total Net Sawlog Vol/Acre: MBFTotal Unit Vol: 545 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Helicopter yarding required. Ensure backline is below oversteepened cliffy areas near top of unit. Remove any debris introduced into v-notches during harvest. Protect v-notches in unit. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 288 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Provide for a variety of horizontal and vertical forest structure across the landscape. Protect oversteep areas and v-notches. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to decadence of stand and presence of mistletoe making this method impractical from both a forest health and economics standpoint. Seed tree cut is feasible, though quality of cedar seed trees would make this method difficult to implement. Clearcut/reserves will meet regeneration needs (through planting cedar) and will provide for variety of forest structure in this landscape.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred, as well as occasional good form/vigor cedar) for structure, future snag sources, and seed. Trees may be scattered through unit or left in small groups through the unit. Helicopter yard. Rely on natural regeneration, though plan on planting cedar at wide spacing to ensure cedar remains a component in regenerating stand.

Prepared By: William R. DouganDate: 11/ 14/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 14/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 4091 of the NW Baranof Timber Sale

STAND #60,71

VCU 288

MANAGEMENT AREA C40

ACRES 8 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 29 Photo #'s 60

Scale: 1:12000

1/4 Quad ID: Sitka B5NW

SITE CHARACTERISTICS:

Elevation: 900 to 1200 ft. Aspect: W to W Slope: 30 to 50 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Sitka spruce - mountain hemlock/blueberry

Site Index (Farr 50 yr.): 71

Soil: 3644C, 3672B

Parent Material: Volcanic ash; decomposed organics from sedge and sphagnum

Soil Depth in: <10 - >40 Soil Texture/Drainage: Deep, somewhat poorly drained mineral soil; deep, very poorly drained organic peat; very shallow, poorly drained mineral soils

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-21-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Low

Damaging Agents: Moderate decay. No fluting or mistletoe noted. Pinicola is present in the unit.

Species Composition (trees 5+\" DBH): 40 %WH 60 %MH %AC %SS

Stand Structure: Mosaic stand with 4 canopy layers. Overstory decadent, some mortality; intermediate layers better form/vigor. Many gaps in stand.

Ave. Height: 70-100ft. Basal Area: 280 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 24 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 10-30% vaccinium cover, Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 202 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Some wet areas, blowdown and small slumps present. Recommend partial suspension with full suspension over slumps. A Class III channel on S boundary and an unmapped Class III channel on N boundary need to be protected. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 288 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Provide for a variety of horizontal and vertical forest structure across the landscape. Protect areas of wet soils and slumps.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of significant cedar component in stand. Group selection is feasible, but will be difficult to implement using cable system. Clearcut/reserves will meet regeneration needs and will provide for variety in forest structure in this landscape.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and as future snag sources. Trees may be left scattered through the unit or (more likely) in small groups through the unit between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 15/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 15/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 4092 of the NW Baranof Timber Sale

STAND #66,71,72

VCU 288

MANAGEMENT AREA C40

ACRES 17 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 29 Photo #'s 60

Scale: 1:12000

1/4 Quad ID: Sitka B5NW

SITE CHARACTERISTICS:

Elevation: 800 to 1200 ft. Aspect: W to NW Slope: 30 to 40 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Sitka spruce - mountain hemlock/blueberry

Site Index (Farr 50 yr.): 70

Soil: 3639B, 3644C

Parent Material: Volcanic ash

Soil Depth in: <10 - >40 Soil Texture/Drainage: Very shallow, poorly drained mineral soil overlying compact ash; deep, somewhat poorly drained mineral soil.

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-21-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: High

Damaging Agents: High decay in unit. No fluting or mistletoe noted. Pinicola common in unit.

Species Composition (trees 5+ DBH): 75 %WH 25 %MH %AC %SS

Stand Structure: Mosaic stand with 4 canopy layers. Overstory decadent, much mortality/blowdown noted; intermediates filling in gaps.

Ave. Height: 70-100ft. Basal Area: 160 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+ DBH): 24 in. Ave. TPA (trees 5+ DBH):

Ground Cover: 10-30% vaccinium cover. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 429 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Combination of helicopter and cable yarding specified - approximately 4 acres on SW end of unit will be helicopter yarded. Recommend partial suspension to protect soils. Small stream flowing from center of unit to NW corner of unit needs to be protected. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 288 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Provide for a variety of horizontal and vertical forest structure across the landscape.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but will be difficult to implement on area cable yarded. Clearcut/reserves will meet regeneration needs and will provide forest structure variety in this landscape.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and as future snag sources. Trees may be scattered through the unit or (more likely) left in small groups through the unit between yarding corridors. Helicopter and cable yarding. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 15/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 15/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 4093 of the NW Baranof Timber Sale

STAND # 65,72 VCU 288 MANAGEMENT AREA C40

ACRES 5 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 29 Photo #'s 60

Scale: 1:12000

1/4 Quad ID: Sitka B5NW

SITE CHARACTERISTICS:

Elevation: 1000 to 1100 ft. Aspect: SW to SW Slope: 30 to 40 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Mixed conifer/blueberry

Site Index (Farr 50 yr.): 64

Soil: 3639B, 3659C

Parent Material: Volcanic ash

Soil Depth in: <20 - >40 Soil Texture/Drainage: Very shallow, poorly drained mineral soils overlying compact ash; deep, somewhat poorly drained mineral soil.

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-21-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Low

Damaging Agents: Moderate decay. No fluting or mistletoe noted. No cedar decline noted.

Species Composition (trees 5+\" DBH): 10 %WH 60 %MH 20 %AC 10 %SS

Stand Structure: Mosaic stand with 3 canopy layers. Overstory decadent, beginning to fall apart; intermediates filling in gaps, good form/vigor.

Ave. Height: 70-90 ft. Basal Area: 400 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 22 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 10% rusty, 10-60% vaccinium. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 126 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Recommend partial suspension to minimize soil surface disturbance. Place NW boundary at or above the slope break of Class III channel. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 288 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Provide for a variety of horizontal and vertical forest structure across the landscape.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but will be difficult to implement with cable yarding. Clearcut/reserves will meet regeneration need, and will contribute to forest structure variety in this landscape.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left scattered through the unit or (more likely) left in small groups through the unit between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. Dougan

Date: 11/ 15/ 95

Certified By:

William R. Dougan
Certified Silviculturist

Date: 11/ 15/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 4094 of the NW Baranof Timber Sale

STAND #65,72

VCU 288

MANAGEMENT AREA C40

ACRES 5 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 29 Photo #'s 60

Scale: 1:12000

1/4 Quad ID: Sitka B5NW

SITE CHARACTERISTICS:

Elevation: 1300 to 1400 ft. Aspect: SW to SW Slope: 30 to 50 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Mixed conifer/blueberry

Site Index (Farr 50 yr.): 69

Soil: 3659C

Parent Material: Volcanic ash

Soil Depth in: <20 - >40 Soil Texture/Drainage: Deep, somewhat poorly drained mineral soil; very shallow, poorly drained mineral soil

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-21-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Low

Damaging Agents: Moderate amount of decay. No fluting or mistletoe noted.

Species Composition (trees 5+" DBH): %WH 75 %MH %AC 25 %SS

Stand Structure: Mosaic stand with 4 canopy levels. Overstory decadent, some pockets of cedar in unit; intermediate layers best in gaps, absent in wet areas.

Ave. Height: 70 ft. Basal Area: 320sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 16 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 0-20% vaccinium. Vaccinium height 1-2 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 126 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Recommend partial suspension to minimize soil surface disturbance. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 288 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Provide for a variety of horizontal and vertical forest structure across the landscape. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to anticipated lack of cedar regeneration with this method, as well as difficulty in implementation with cable system. Clearcut/reserves is feasible, but will likely not meet cedar regeneration objective. Seed tree cut will meet cedar regeneration objective and will provide for forest structure variety in this landscape.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar seed trees per acre either scattered through the unit or (more likely) left in small groups through the unit between yarding corridors. Orient leave trees to minimize blowdown risk, where possible to do so. Cable yard. Rely on natural regeneration.

Prepared By: William R. Dougan

Date: 11/ 15/ 95

Certified By: William R. Dougan
Certified Silviculturist

Date: 11/ 15/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 4095 of the NW Baranof Timber Sale

STAND # 74 VCU 288 MANAGEMENT AREA C40

ACRES 3 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 29 Photo #'s 60

Scale: 1:12000

1/4 Quad ID: Sitka B5NW

SITE CHARACTERISTICS:

Elevation: 1400 to 1450 ft. Aspect: SW to SW Slope: 40 to 60 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Sitka spruce - mountain hemlock/blueberry

Site Index (Farr 50 yr.): 64

Soil: 3659C

Parent Material: Volcanic ash

Soil Depth in: <20 - >40 Soil Texture/Drainage: Deep, somewhat poorly drained mineral soil; very shallow, poorly drained mineral soil.

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-21-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Low

Damaging Agents: Moderate decay in stand. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 10-15 %WH 40-45 %MH %AC 40-45%SS

Stand Structure: Mosaic stand with 4 canopy layers. Overstory decadent, heavy defect, many snags; intermediate layers filling in gaps, good form.

Ave. Height: 90 ft. Basal Area: 280sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 22 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 0-40% vaccinium cover. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 76 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Recommend partial suspension to minimize soil surface disturbance. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 288 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Provide for a variety of horizontal and vertical forest structure across the landscape. Retain existing advance regeneration to the extent possible.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection not considered due to difficulty in implementing method with cable system, and lack of retaining advance regeneration with this method. Clearcut/reserves is feasible for regeneration, but will not meet objective of retaining advance regeneration. Overstory removal will meet advance regeneration retention objective, and will provide moderate canopy retention in this landscape.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees up to 16" DBH. Protect non-merchantable trees and advance regeneration to the extent possible. Trees will be retained in areas between yarding corridors - will require lateral yarding to accomplish. Cable yard. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. Dougan

Date: 11/ 15/ 95

Certified By: William R. Dougan
Certified Silviculturist

Date: 11/ 15/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 5001 of the NW Baranof Timber Sale

STAND # 36 VCU 288 MANAGEMENT AREA C40

ACRES 7 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 27 Photo #'s 44

Scale: 1:12000

1/4 Quad ID: Sitka B5NW

SITE CHARACTERISTICS:

Elevation: 200 to 300 ft. Aspect: E to NW Slope: 10 to 50 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock - yellow cedar/blueberry

Site Index (Farr 50 yr.): 71

Soil: 3659C

Parent Material: Volcanic ash

Soil Depth in: <20 - >40 Soil Texture/Drainage: Deep, somewhat poorly drained mineral soil; very shallow, poorly drained mineral soil.

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-18-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Low to moderate decay. No fluting or mistletoe noted. Pinicola is present in unit. Cedar decline noted.

Species Composition (trees 5+\" DBH): 55 %WH %MH 25-30 %AC 15-20%SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Dominants scattered, losing vigor; codoms. not well stocked; intermediates well stocked, vigorous.

Ave. Height: 90 ft. Basal Area: 440sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 20 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 2% rusty menziesia, 60% vaccinium. Vaccinium height 1 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 177 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Unit is adjacent to state land selection; boundaries need to be identified prior to layout. Partial suspension recommended to minimize soil surface disturbance. Channel on E boundary is Class II stream up to NE corner, and may have some fish habitat further upstream.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 288 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Schulze Cove area to provide a variety of horizontal and vertical forest structure across the landscape. Minimize negative visual impacts. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to heavy cedar decline in area and lack of suitable seed trees. Group selection is feasible, but will be difficult to implement with cable system and will not meet cedar regeneration needs unless planting occurs. Clearcut/reserves will meet cedar regeneration needs (with planting) but will not meet canopy retention and visual objectives.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left scattered through the unit or (more likely) in small groups through the unit between yarding corridors. Cable yard. Rely on natural regeneration, but plan on planting cedar if regeneration is inadequate.

Prepared By: William R. Dougan

Date: 11/ 15/ 95

Certified By: William R. Dougan
Certified Silviculturist

Date: 11/ 15/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 5002 of the NW Baranof Timber Sale

STAND # 36 VCU 288 MANAGEMENT AREA C40

ACRES 7 Determined How: GIS By Whom: M.Hawks Date: 1993
Aerial Photo: Year 1986 Flight Line 27 Photo #'s 44
Scale: 1:12000
1/4 Quad ID: Sitka B5NW

SITE CHARACTERISTICS:

Elevation: 200 to 500 ft. Aspect: N to NW Slope: 30 to 60 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock - yellow cedar/blueberry

Site Index (Farr 50 yr.): 71

Soil: 3659C

Parent Material: Volcanic ash

Soil Depth in: <20 - >40 Soil Texture/Drainage: Deep, somewhat poorly drained mineral soil; very shallow, poorly drained mineral soil

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-18-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Low

Damaging Agents: Low to moderate decay. No fluting or mistletoe noted. Light cedar decline noted.

Species Composition (trees 5+\" DBH): 80 %WH %MH 10 %AC 10 %SS

Stand Structure: Storied stand. Dominants/codoms. beginning to decline in vigor but form still good; intermediates with good form/vigor.

Ave. Height: 100-120ft Basal Area: 400 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 16-18in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 3-7% rusty menziesia, 5-15% vaccinium. Vaccinium height 2-4 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 177 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Unit is adjacent to state land selection; boundary needs to be identified prior to layout. Partial suspension recommended to minimize soil surface disturbance. Channel on W boundary is Class II fish stream up to NW corner and may have some habitat further upstream. V-notch is NW corner should be protected.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 288 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Schulze Cove area to provide a variety of horizontal and vertical forest structure across the landscape. Retain cedar across the landscape where it occurs. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to high cedar decline in area and lack of adequate seed trees. Group selection will be difficult to implement with cable system, and will not meet cedar retention objective. Clearcut/reserves will meet cedar retention objective (with planting) but will not meet canopy retention objective.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Leave trees either scattered through the unit or (more likely) in small groups through unit between yarding corridors. Cable yard. Rely on natural regeneration, but plan on planting cedar at wide spacing if regeneration is not adequate.

Prepared By: William R. DouganDate: 11/ 15/ 95Certified By: 
Certified SilviculturistDate: 11/ 15/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 5003 of the NW Baranof Timber SaleSTAND #615,622
15,205VCU 287
288MANAGEMENT AREA C40ACRES 14 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 27 Photo #'s 44Scale: 1:120001/4 Quad ID: Sitka B5NWSITE CHARACTERISTICS:Elevation: 400 to 700 ft. Aspect: N to NE Slope: 20 to 60+ %
Landform: Broken mountainslopes and hillslopesPlant Association: Western hemlock - yellow cedar/blueberrySite Index (Farr 50 yr.): 70Soil: 3648D, 3659C, 3672BParent Material: Volcanic ash; decomposed organics from mosses, sphagnum, sedgeSoil Depth in: <20 - >40 Soil Texture/Drainage: Shallow, well drained mineral soil; very shallow, well drained organic soil over bedrock; deep, somewhat poorly drained mineral soil; deep, very poorly drained organic peat.Potential of Mass Failure: ModerateSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 7-18-93Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: ModerateDamaging Agents: Moderate amount of decay. No fluting or mistletoe noted. Pinicola noted in unit in small amounts. Cedar decline noted.Species Composition (trees 5+\" DBH): 90 %WH %MH 10 %AC %SSStand Structure: Mosaic stand with 3 canopy layers. Dominants scattered, decadent; codoms/intermediates well stocked, healthy, good crowns.Ave. Height: 100 ft. Basal Area: 400 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+\" DBH): 20 in. Ave. TPA (trees 5+\" DBH): Ground Cover: 1% rusty menziesia, 85% vaccinium. Vaccinium height 2-3 ft.Total Net Sawlog Vol/Acre: MBFTotal Unit Vol: 399 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Cable yarding specified. Ensure E boundary avoids unstable soils and wet areas with grass/hellebore. Recommend partial suspension to minimize soil surface disturbance. Three tributaries of a Class III channel split unit, and need to be protected and possibly buffered. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU's 287 and 288 have been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Schulze Cove area to provide a variety of horizontal and vertical forest structure across the landscape. Protect areas of unstable soils. Retain advance regeneration to the extent possible. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include overstory removal and group selection. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves not considered due to not meeting canopy retention, advance regeneration retention, and visuals objectives. Group selection is feasible, but does not meet advance regeneration retention objective. Overstory removal will meet objective of retaining advance regeneration, and will meet moderate canopy retention objective.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees greater than 16" DBH and protect non-merchantable trees and advance regeneration to the extent possible during harvest. This method will require lateral yarding between skyline corridors to accomplish objectives. Cable yard. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. Dougan

Date: 11/ 15/ 95

Certified By: 
Certified Silviculturist

Date: 11/ 15/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 5004 of the NW Baranof Timber Sale

STAND #615 VCU 287 MANAGEMENT AREA C40

ACRES 34 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 27 Photo #'s 44

Scale: 1:12000

1/4 Quad ID: Sitka B5NW

SITE CHARACTERISTICS:

Elevation: 100 to 600 ft. Aspect: NW to SE Slope: 20 to 75 %

Landform: Smooth, infrequently dissected mountainslopes and broken mountain-slopes and hillslopes

Plant Association: Western hemlock/blueberry and mixed conifer/blueberry

Site Index (Farr 50 yr.): 78

Soil: 3548D, 3644C, 3648D

Parent Material: Volcanic ash, organics derived from litter/mosses

Soil Depth in: <10 - >40 Soil Texture/Drainage: Somewhat poorly drained to well drained silt loams and mucky peat

Potential of Mass Failure: Low to moderate

STAND CHARACTERISTICS:

6-1-94

Stand Examination: Type Walk-through exam Date 7-28-94

Stand History: Wind processes are the primary disturbance agent.

Potential Windthrow Hazard: Low to moderate

Damaging Agents: Moderate decay in stand. No fluting noted. Light mistletoe in some areas of unit. Pinicola common in unit. Cedar decline noted.

Species Composition (trees 5+" DBH): 65-75%WH 20-25%MH 10 %AC %SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants decadent; codoms. variable in vigor; intermediates good vigor in gaps, poorer under shade.

Ave. Height: 105-115ft Basal Area: 360 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 16-18in. Ave. TPA (trees 5+" DBH):

Ground Cover: 30-65% vaccinium, <5-5% rusty. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 1014 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Locate groups in areas that avoid slopes greater than 75 percent. Directionally fall away from v-notches. Full suspension required for all downhill yarding. Protect v-notch in center of unit. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 287 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Schulze Cove area to provide a variety of horizontal and vertical forest structure across the landscape. Protect v-notches and areas of oversteep and wet soils. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of significant cedar component in stand. Clearcut/reserves is feasible, but will not meet canopy retention objective. Group selection will meet canopy retention objective and will minimize negative visual impacts.

RECOMMENDED TREATMENT:

Recommended treatment is group selection. Harvest up to 20% of unit in groups up to 1-2 acres in size this entry; plan for cutting cycle of 40-50 years with up to 20% removal each cutting cycle. For this unit, harvest approximately 7 acres in 3-5 groups total. Locate groups either side of yarding corridors such that future entries will not destroy regeneration. Cable yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 15/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 15/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 5005 of the NW Baranof Timber Sale

STAND #615,622

VCU 287

MANAGEMENT AREA C40

ACRES 7 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 27 Photo #'s 44

Scale: 1:12000

1/4 Quad ID: Sitka B5NW

SITE CHARACTERISTICS:

Elevation: 450 to 700 ft. Aspect: to Slope: 40 to 60 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 80

Soil: 3644C

Parent Material: Volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: Deep, somewhat poorly drained mineral soil

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-18-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: High

Damaging Agents: Low amount of decay; light mistletoe infection; pinicola conks present in small amount. No fluting noted.

Species Composition (trees 5+" DBH): 90 %WH %MH %AC 10 %SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Dominants scattered, declining in vigor; codoms. variable vigor, some mistletoe; intermeds. in gaps.

Ave. Height: 110 ft. Basal Area: 360sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 25 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 1% rusty menziesia; 75% vaccinium. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 195 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Recommend partial suspension to minimize surface disturbance. V-notches at center of unit and splitting E 1/2 of unit need protection. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 287 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide for the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Schulze Cove area to provide a variety of horizontal and vertical forest structure across the landscape. Protect v-notches. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of significant cedar component in stand. Group selection is feasible, though it is difficult to implement with cable system. Clearcut/reserves will meet regeneration needs, but will not meet canopy retention objective.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through the unit or (more likely) in small groups through the unit between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 15/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 15/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 5011 of the NW Baranof Timber SaleSTAND #626
18VCU 287
288MANAGEMENT AREA C40ACRES 12 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 27 Photo #'s 42Scale: 1:120001/4 Quad ID: Sitka B5NWSITE CHARACTERISTICS:Elevation: 700 to 850 ft. Aspect: NW to NW Slope: 40 to 45 %
Landform: Broken mountainslopes and hillslopesPlant Association: Western hemlock/blueberrySite Index (Farr 50 yr.): 69Soil: 3653D, 3659C, 3672BParent Material: Volcanic ash; decomposed organics from sedge and sphagnumSoil Depth in: <20 - >40 Soil Texture/Drainage: Deep, somewhat poorly drained mineral soil; very shallow, poorly drained mineral soil; deep, very poorly drained organic peat; deep, well drained mineral soil.Potential of Mass Failure: Moderate to highSTAND CHARACTERISTICS:Stand Examination: Type walk-through exam Date 5-22-93Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: ModerateDamaging Agents: Moderate decay. No fluting noted. Light mistletoe infection in unit.Species Composition (trees 5+\" DBH): 80-85 %WH %MH %AC 15-20%SSStand Structure: Uneven-aged stand with 3 canopy layers. Overstory decadent, some mortality; intermediates with poor vigor. Mistletoe in all layers.Ave. Height: 120-130ft Basal Area: 240sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+\" DBH): 18 in. Ave. TPA (trees 5+\" DBH): Ground Cover: <5% rusty menziesia; 40-80% vaccinium. Vaccinium height 2-3 ft.Total Net Sawlog Vol/Acre: MBFTotal Unit Vol: 349 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Cable yarding specified. Recommend partial suspension to minimize surface disturbance. V-notch on W boundary needs to be protected. Unit does not meet visual quality objective. Adjust boundaries to reduce apparent size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU's 287 and 288 have been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Schulze Cove area to provide a variety of horizontal and vertical forest structure across the landscape. Protect v-notches. Reduce mistletoe infection to improve forest health. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but will likely not reduce mistletoe infection. Clearcut/reserves will meet regeneration needs and will reduce mistletoe infection, but will not meet canopy retention and visual objectives.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred, do not select mistletoe-infected hemlock) for structure and future snag sources. Trees may be left scattered through the unit or (more likely) in small groups through the unit between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 15/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 15/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 5012 of the NW Baranof Timber Sale

STAND #625,626

VCU 287

MANAGEMENT AREA C40

ACRES 15 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 27 Photo #'s 42

Scale: 1:12000

1/4 Quad ID: Sitka B5NW

SITE CHARACTERISTICS:

Elevation: 500 to 900 ft. Aspect: SW to SW Slope: 45 to 65 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 89

Soil: 3653D, 3659C

Parent Material: Volcanic ash

Soil Depth in: <20 - >40 Soil Texture/Drainage: Deep, somewhat poorly drained mineral soil; very shallow, poorly drained mineral soil; deep, well drained mineral soil

Potential of Mass Failure: Moderate to high

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 5-22-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Low to moderate decay. No fluting noted. Light mistletoe infection in unit.

Species Composition (trees 5+\" DBH): 100 %WH %MH %AC %SS

Stand Structure: Storied stand of codominant hemlock with scattered large spruce. Generally good form/vigor. Intermediates of poor form/vigor.

Ave. Height: 110-120ft Basal Area: 320sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 18-20in. Ave. TPA (trees 5+\" DBH):

Ground Cover: <5-5% rusty menziesia; 50-70% vaccinium. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 383 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Recommend partial suspension to minimize surface disturbance. V-notch on W boundary needs to be protected. Unit as planned does not meet visual quality objective. Adjust boundaries to reduce apparent size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 287 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Schulze Cove area to provide a variety of horizontal and vertical forest structure across the landscape. Protect v-notches. Reduce mistletoe infection to improve forest health. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but will not reduce mistletoe infection in stand. Clearcut/reserves will meet regeneration needs and reduce mistletoe infection, but will not meet canopy retention and visual objectives.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred, but do not select mistletoe-infected hemlock) for structure and future snag sources. Trees may be left either scattered through the unit or (more likely) in small groups through the unit between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 15/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 15/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 5013 of the NW Baranof Timber Sale

STAND #625
20

VCU 287
288

MANAGEMENT AREA C40

ACRES 9 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 27 Photo #'s 42

Scale: 1:12000

1/4 Quad ID: Sitka B5NW

SITE CHARACTERISTICS:

Elevation: 600 to 800 ft. Aspect: SW to SW Slope: 45 to 70 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock/blueberry and Western hemlock - yellow cedar/blueberry

Site Index (Farr 50 yr.): 85

Soil: 3653D, 3659C, 3672B

Parent Material: Volcanic ash; decomposed organics from sedge and sphagnum

Soil Depth in: <20 - >40 Soil Texture/Drainage: deep, well drained mineral soils; deep, somewhat poorly drained mineral soils; deep, very poorly drained organic peat; shallow, poorly drained mineral soils

Potential of Mass Failure: Moderate to high

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 5-22-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Low to moderate decay. No fluting or mistletoe noted. Cedar decline noted.

Species Composition (trees 5+\" DBH): 50 %WH %MH 15-20 %AC 30-35%SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Lower slopes poor vig- or, cedar decline; upper slopes better form/vigor; intermediates best in gaps.

Ave. Height: 110-120ft Basal Area: 240 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 16-18in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 5-10% rusty menziesia; 15-40% vaccinium. Vaccinium height 1-2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 227 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Recommend partial suspension to protect soils.
V-notch near W boundary of unit needs to be protected. Try to keep N and E
boundaries from extending towards the lake, and keep unit to SW of ridgeline to
reduce visual impacts to lake. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU's 287 and 288 have been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain moderate to high canopy retention wherever possible in Schulze Cove area to provide a variety of horizontal and vertical forest structure across the landscape. Protect v-notches. Retain cedar across the landscape where it occurs. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to anticipated lack of cedar regeneration with this method. Clearcut/reserves is feasible, but will likely not result in adequate cedar regeneration (unless planted). Seed tree cut will meet cedar regeneration objective, but will not meet canopy retention objective.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain up to 10-12 cedar seed trees per acre, either scattered through the unit or (more likely) grouped in small groups through the unit between yarding corridors. Orient leave trees to minimize blowdown risk, where possible to do so. Cable yard. Rely on natural regeneration.

Prepared By: William R. Dougan

Date: 11/ 15/ 95

Certified By: William R. Dougan
Certified Silviculturist

Date: 11/ 15/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6271 of the NW Baranof Timber Sale

STAND #212,213,215 VCU 302 MANAGEMENT AREA C40

ACRES 30 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 27 Photo #'s 30

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 200 to 350 ft. Aspect: NW to N Slope: 15 to 40 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 89

Soil: 3617D, 3644C

Parent Material: Volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: Somewhat poorly drained to moderately well drained silt loams

Potential of Mass Failure: Low

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-2-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+" DBH): 100 %WH %MH %AC %SS

Stand Structure: Uneven aged stand with 3 canopy layers. Scattered dominants, poor vigor, some mortality; codoms. variable form/vigor; intermeds. poor vigor

Ave. Height: 95-100ft. Basal Area: 280 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 18-20in. Ave. TPA (trees 5+" DBH):

Ground Cover: 45-65% vaccinium, <5% rusty. Vaccinium height 2-4 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 849 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Partial suspension recommended for soil protection.

V-notch near NE corner needs to be protected. Do not move unit boundary any closer to beach during layout. Archaeologist needs to be consulted during final design and layout to ensure nearby historic properties will not be damaged during harvest.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to produce the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Provide for a variety of horizontal and vertical forest structure across the landscape. Protect advance regeneration in stand. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection not considered due to lack of regeneration protection with this method and difficult implementation with cable system. Clearcut/reserves feasible for regeneration needs, but will not meet regeneration retention and visual objectives. Overstory removal will retain advance regeneration and will better minimize negative visual impacts.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees up to 18" DBH and protect non-merchantable trees and advance regeneration to the extent possible. This method will require lateral yarding. Cable yard. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. DouganDate: 11/ 15/ 95

Certified By:


Certified SilviculturistDate: 11/ 15/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6272 of the NW Baranof Timber Sale

STAND #212,213 VCU 302 MANAGEMENT AREA C40

ACRES 14 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 27 Photo #'s 30

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 200 to 300 ft. Aspect: SE to S Slope: 40 to 55 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 80

Soil: 3617D, 3644C

Parent Material: Volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: Somewhat poorly drained to moderately well drained silt loams

Potential of Mass Failure: Low

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-2-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Low decay. No fluting or mistletoe noted.

Species Composition (trees 5+ DBH): 90 %WH %MH %AC 10 %SS

Stand Structure: Even aged stand with 2 canopy layers. Dominants have dropped out, now mostly codoms. with good form/vigor; intermediates not well stocked.

Ave. Height: 95-100ft. Basal Area: 400 sq.ft. Ave. Age: 150+ yr.

Ave. DBH (trees 5+ DBH): in. Ave. TPA (trees 5+ DBH):

Ground Cover: 35-50% vaccinium, <5% rusty. Vaccinium height 1-2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 367 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Recommend partial suspension to minimize surface disturbance. V-notches at W boundary, in center of unit, and at NW corner need to be protected. Maintain 100 ft. vegetated buffer of non-commercial trees between unit and small ponds south of unit. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Provide for a variety of horizontal and vertical forest structure across the landscape. Protect v-notches. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in the stand. Clearcut/reserves will meet regeneration needs, but will not meet visual needs. Group selection best meets objectives.

RECOMMENDED TREATMENT:

Recommended treatment is group selection. Harvest up to 20% of unit in groups up to 1-2 acres in size this entry; plan for cutting cycle of 40-50 years with up to 20% removal each cutting cycle. For this unit, approximately 3 acres in 2-3 groups total will be located either side of yarding corridor(s) such that future entries will not destroy regeneration. Group selection with cable yarding will be difficult to implement, but should be treated as adaptive management project to see if it is feasible to do on larger scale. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 15/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 15/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6281 of the NW Baranof Timber Sale

STAND #209,210,211 VCU 302 MANAGEMENT AREA C40

ACRES 31 Determined How: GIS By Whom: M. Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 28 Photo #'s 102

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 300 to 600 ft. Aspect: W to NW Slope: 45 to 60 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 80

Soil: 3617D, 3659C, 3690B

Parent Material: Volcanic ash and organics derived from sedge/sphagnum

Soil Depth in: <10 - >40 Soil Texture/Drainage: Very poorly drained to moderately well drained mucky peats, mucky silt loams and silt loams

Potential of Mass Failure: Low to moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-8-94

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate to high decay. No mistletoe noted. Some fluting in stilted hemlock.

Species Composition (trees 5+\" DBH): 80-85 %WH %MH %AC 15-20%SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants/codoms with varying defect (highest in hemlock); intermediates best vigor in gaps.

Ave. Height: 120-130ft Basal Area: 440 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 16-18in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 35-55% vaccinium. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 787 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Adjust backline to avoid oversteepened knob. Split yard on v-notch near center of unit and remove any debris introduced in notches. Full suspension recommended. V-notches form N, E and S boundaries and need to be protected. Streams flowing from W and SW boundaries are Class II fish streams and require protection. W boundary of unit has emergent wetlands which need to be avoided during layout. Unit as planned does not meet visual quality objective. Adjust boundary to reduce apparent size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches and wetlands. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but will be difficult to implement in this unit with cable system. Clearcut/reserves is feasible for regeneration needs, but will not meet canopy retention and visual objectives.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or (more likely) left in small groups through the unit between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 16/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 16/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6282 of the NW Baranof Timber Sale

STAND #208,210,221 VCU 302 MANAGEMENT AREA C40

ACRES 23 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 28 Photo #'s 102

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 550 to 1000 ft. Aspect: NW to N Slope: 25 to 45 %

Landform: Broken mountainslopes and hillslopes and gently sloping lowlands

Plant Association: Sitka spruce/blueberry

Site Index (Farr 50 yr.): 56

Soil: 3639B, 3659C, 6139B

Parent Material: Volcanic ash

Soil Depth in: <10 - >40 Soil Texture/Drainage: Poorly drained to somewhat poorly drained mucky silt loams and silt loams

Potential of Mass Failure: Low

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-8-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+" DBH): 55-60 %WH %MH %AC 40-45%SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants/codoms. of variable form and vigor; intermediates with shallow crowns.

Ave. Height: 130 ft. Basal Area: 360 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 28 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 40% vaccinium. Vaccinium height 3-4 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 677 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit contains v-notches and some blowdown. Directionally fall away from v-notches. Place S boundary at or above the slope break of Class III channel. W boundary runs along an unmapped Class III stream and needs to be protected. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain advance regeneration to the extent possible. Protect v-notches. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

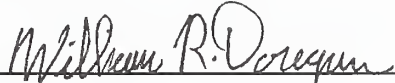
Potential treatments include group selection and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves not considered due to lack of advance regeneration utilization with this method, as well as not meeting visual objective. Group selection is feasible for regeneration, but will not utilize existing understory. Overstory removal will protect advance regeneration and provide for moderate canopy retention.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees less than 18" DBH and protect non-merchantable trees and advance regeneration. Helicopter yard. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. Dougan

Date: 11/ 16/ 95

Certified By: 
Certified Silviculturist

Date: 11/ 16/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6283 of the NW Baranof Timber Sale

STAND #206,221 VCU 302 MANAGEMENT AREA C40

ACRES 8 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 28 Photo #'s 102

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 800 to 1000 ft. Aspect: NE to E Slope: 25 to 45 %

Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 52

Soil: 3639B

Parent Material: Volcanic ash

Soil Depth in: <10 Soil Texture/Drainage: Poorly drained mucky silt loam

Potential of Mass Failure: Low

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-8-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate to high decay. No fluting or mistletoe noted.

Species Composition (trees 5+" DBH): 100 %WH %MH %AC %SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants scattered, low vigor, some mortality; codoms. variable vigor; intermediates best in gaps.

Ave. Height: 115-120ft Basal Area: 200 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 12-14in. Ave. TPA (trees 5+" DBH):

Ground Cover: 40-60% vaccinium. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 229 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Partial suspension recommended. Protect v-notch in center of unit. Approximately 1/2 acre of emergent wetland habitat within unit needs to be dropped from harvest to protect water quality. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches. Retain cedar across the landscape where it occurs. Protect wetland habitat.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of significant cedar component in stand. Group selection is feasible, but will be difficult to implement with cable system, and will likely not meet cedar regeneration objective without planting. Clearcut/reserves will meet regeneration objective (by planting cedar) and will provide for forest structure variety in this landscape.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through the unit or (more likely) left in small groups through the unit between yarding corridors. Cable yard. Rely on natural regeneration, but consider planting cedar at wide spacing, as unit appears capable of supporting cedar regeneration.

Prepared By: William R. DouganDate: 11/ 16/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 16/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6291 of the NW Baranof Timber Sale

STAND #208,210,221 VCU 302 MANAGEMENT AREA C40

ACRES 7 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 27 Photo #'s 30

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 450 to 900 ft. Aspect: NW to N Slope: 30 to 60 %
Landform: Broken mountainslopes and hillslopes and gently sloping lowlands

Plant Association: Sitka spruce/blueberry

Site Index (Farr 50 yr.): 55

Soil: 3639B, 6139B

Parent Material: Volcanic ash

Soil Depth in: <10 Soil Texture/Drainage: Poorly drained silt loams

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-8-94

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate to high

Damaging Agents: Moderate decay. Low to moderate fluting noted. No mistletoe noted.

Species Composition (trees 5+\" DBH): 75 %WH %MH %AC 25 %SS

Stand Structure: Uneven aged stand with multiple canopy layers. Large dominants absent; pistol butting common; overall appearance of soil creep.

Ave. Height: 90-100ft. Basal Area: 320 sq.ft. Ave. Age: 150+ yr.

Ave. DBH (trees 5+\" DBH): 20 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 50% vaccinium cover with patches of grass present. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 204 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Directionally fall away from v-notches. Protect two large v-notches that flow from unit to Class III channel SW of unit. Maintain unit boundary at or above the slope break of Class III channel on NE boundary. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches. Minimize negative visual impacts. Retain advance regeneration.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include group selection and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves not considered due to not meeting visual objective. Group selection is feasible, but will not meet objective of utilizing advance regeneration. Overstory removal will retain advance regeneration and will minimize negative visual impacts.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees less than 18" DBH and protect non-merchantable trees and advance regeneration to the extent possible. Helicopter yard. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. Dougan

Date: 11/ 16/ 95

Certified By: 
Certified Silviculturist

Date: 11/ 16/ 95

UNIT # 6293 of the NW Baranof Timber Sale

STAND #210,211,220, VCU 302 MANAGEMENT AREA C40
221

ACRES 28 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 27 Photo #'s 30

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 200 to 450 ft. Aspect: W to NW Slope: 30 to 45 %

Landform: Frequently dissected footslopes and alluvial fans and gently sloping lowlands

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 65

Soil: 5293B, 6139B

Parent Material: Alluvial sands, silt and gravels; volcanic ash

Soil Depth in: <10 - >60 Soil Texture/Drainage: Poorly drained to somewhat poorly drained silt loams, mucky silt loams and gravelly loamy sands

Potential of Mass Failure: Low

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-15-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Low

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 80 %WH %MH %AC 20 %SS

Stand Structure: Uneven aged stand with 4 canopy layers. Overstory beginning to fall apart; intermediates beginning to release in gaps.

Ave. Height: 100-120ft Basal Area: 400 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 16 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 10-30% vaccinium. Vaccinium height 1 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 775 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Partial suspension recommended to protect soils.

Class I and II channels near lower unit boundary need to be protected. Several small tributaries with fish habitat need protection. Unmapped Class III channels on N and S boundaries need to be protected. Within visual quality objective. Archaeologist needs to be involved in final design/layout stage to confirm that historic properties nearby will not be damaged during harvest.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These lands have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches and streams. Retain advance regeneration. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include group selection and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves not considered due to lack of advance regeneration utilization with this method and failure to meet visual objective. Group selection is feasible, but will not meet advance regeneration objective and will be difficult to implement with cable system. Overstory removal will meet advance regeneration and visual objectives.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees less than 18" DBH and protect non-merchantable trees and advance regeneration. Cable yarding will require lateral yarding between skyline corridors to achieve objective. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. Dougan

Date: 11/ 16/ 95

Certified By: William R. Dougan
Certified Silviculturist

Date: 11/ 16/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6294 of the NW Baranof Timber Sale

STAND #206,208,221 VCU 302 MANAGEMENT AREA C40

ACRES 28 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 27 Photo #'s 30
Scale: 1:12000
1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: _____ to _____ ft. Aspect: NW to _____ Slope: 15 to 60 %
Landform: Gently sloping lowlands

Plant Association: Sitka spruce/blueberry

Site Index (Farr 50 yr.): 55

Soil: 6139B

Parent Material: Volcanic ash

Soil Depth in: <10 Soil Texture/Drainage: Poorly drained silt loams

Potential of Mass Failure: Low

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-11-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: High

Damaging Agents: Low to moderate decay. No fluting or mistletoe noted. High incidence of blowdown noted.

Species Composition (trees 5+\" DBH): 50-55%WH _____ %MH _____ %AC 45-50%SS

Stand Structure: Uneven aged stand with multiple canopy layers. Dominants somewhat scattered; codoms. predominate, good form; intermediates well stocked.

Ave. Height: 140 ft. Basal Area: 400 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 20-22 in. Ave. TPA (trees 5+\" DBH): _____

Ground Cover: 30% vaccinium cover. Vaccinium height 1-2 ft.

Total Net Sawlog Vol/Acre: _____ MBF Total Unit Vol: 830 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Avoid harvest in remnant slides. Remove debris introduced into v-notches during harvest. Maintain boundary at or above slope break of Class III stream on N boundary, and unmapped channel on S boundary. Protect v-notch in center of unit. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain advance regeneration. Protect v-notches. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include group selection and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves not considered due to lack of advance regeneration retention and failure to meet visual objective. Group selection is feasible, but will not meet advance regeneration objective. Overstory removal will meet advance regeneration and visual objectives.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees up to 18" DBH and protect non-merchantable and advance regeneration. Helicopter yard. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. Dougan

Date: 11/ 16/ 95

Certified By: 
Certified Silviculturist

Date: 11/ 16/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6301 of the NW Baranof Timber Sale

STAND #196,197,198

VCU 302

MANAGEMENT AREA C40

ACRES 22 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 28 Photo #'s 102

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 300 to 600 ft. Aspect: N to Slope: 40 to 70 %

Landform: Smooth, frequently dissected, shallowly incised mountainslopes; broken mountainslopes and hillslopes

Plant Association: Sitka spruce/blueberry/skunk cabbage

Site Index (Farr 50 yr.): 82

Soil: 3221D, 3659C

Parent Material: Colluvium, residuum and volcanic ash

Soil Depth in: <10 - >40 Soil Texture/Drainage: Poorly drained to moderately well drained mucky silt loams and silt loams

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-26-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Low decay. No fluting or mistletoe noted. Pinicola present in unit, but in minor amounts.

Species Composition (trees 5+" DBH): 55-60 %WH 10-15%MH %AC 30-35%SS

Stand Structure: Mosaic structure with multiple canopy layers. Scattered dominants/codoms.; intermediates filling in gaps, fairly vigorous.

Ave. Height: 90-110ft. Basal Area: 360 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 24 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 0-70% vaccinium. Vaccinium height 3 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 656 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Five v-notches bisect unit and will need to be protected. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical structure across the landscape. Retain advance regeneration. Protect v-notches and minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include group selection and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves not considered due to lack of advance regeneration retention with this method, and does not meet visual objective. Overstory removal will meet advance regeneration and visual objectives.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees less than 18" DBH and protect non-merchantable trees and advance regeneration. Helicopter yard. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. Dougan

Date: 11/ 16/ 95

Certified By: 
Certified Silviculturist

Date: 11/ 16/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6303 of the NW Baranof Timber Sale

STAND #199,206

VCU 302

MANAGEMENT AREA C40

ACRES 4 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 28 Photo #'s 102

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 850 to 950 ft. Aspect: W to NW Slope: 40 to 60 %
Landform: broken mountainslopes and hillslopes

Plant Association: mixed conifer/blueberry

Site Index (Farr 50 yr.): 64

Soil: 3659C

Parent Material: volcanic ash

Soil Depth in: <20 - >40 Soil Texture/Drainage: very shallow to deep, poorly drained mineral soil

Potential of Mass Failure: moderate

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 6-26-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: low

Damaging Agents: High decay. No fluting noted. Moderate mistletoe infection.

Pinicola present throughout unit.

Species Composition (trees 5+ DBH): 25 %WH 10-15 %MH 25 %AC 35-40%SS

Stand Structure: mosaic stand with 4 canopy layers. Overstory decadent, high cull; intermediates mostly poor form/vigor.

Ave. Height: 90 ft. Basal Area: 320sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+ DBH): 18 in. Ave. TPA (trees 5+ DBH):

Ground Cover: 20-80% vaccinium cove. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 101 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Recommend split yarding on v-notches. Full suspension recommended over wet areas steeper than 45 percent and over cliffs, partial suspension elsewhere. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain cedar across the landscape where it occurs. Protect v-notches, cliffs and wet areas. Reduce mistletoe infection to improve forest health. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to lack of mistletoe reduction with this method as well as difficulty in implementing this method with cable system. Seed tree cut is feasible, but lack of quality cedar seed trees makes implementation difficult. Clearcut/reserves will meet cedar regeneration objective (by planting) and mistletoe reduction objective, but will not meet visual objective.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred, but do not select mistletoe-infected hemlock) for structure and future snag sources. Trees may be left scattered through unit or (more likely) in small groups through unit between yarding corridors. Cable yard. Rely on natural regeneration, but plan on planting cedar at wide spacing to ensure regeneration.

Prepared By: William R. DouganDate: 11/ 16/ 95Certified By: 
Certified SilviculturistDate: 11/ 16/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6304 of the NW Baranof Timber Sale

STAND #199,206

VCU 302

MANAGEMENT AREA C40

ACRES 9 Determined How: GIS By Whom: M. Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 28 Photo #'s 102

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 700 to 1100 ft. Aspect: N to NE Slope: 40 to 70 %

Landform: Broken mountainslopes and hillslopes

Plant Association: Mixed conifer/blueberry

Site Index (Farr 50 yr.): 67

Soil: 3659C, 3672B

Parent Material: Volcanic ash; organics derived from sedge/sphagnum

Soil Depth in: <10 - >40 Soil Texture/Drainage: Very poorly drained to somewhat poorly drained mucky peat, mucky silt loams and silt loams

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-26-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting noted. Moderate mistletoe infection. Pinicola present in unit.

Species Composition (trees 5+\" DBH): <5 %WH 70-75 %MH <5 %AC 15-20%SS

Stand Structure: Mosaic structure. Scattered, decadent dominants; codoms. variable vigor; intermediates vigorous in gaps. Many gaps in stand.

Ave. Height: 80-100ft. Basal Area: 280 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 24 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 30-80% vaccinium. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 227 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Ensure S boundary is above slope break of v-notch. Unit contains several v-notches. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain advance regeneration. Protect v-notches. Reduce mistletoe infection to improve forest health. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include group selection and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves not considered due to this method not meeting advance regeneration retention and visual objectives. Group selection is feasible, but will not meet advance regeneration retention and mistletoe reduction objectives. Overstory removal will meet advance regeneration and visual objectives, and will partially meet mistletoe reduction objection.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees less than 18" DBH and protect non-merchantable trees and advance regeneration. Helicopter yard. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. DouganDate: 11/ 16/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 16/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6305 of the NW Baranof Timber Sale

STAND #192,196,199 VCU 302 MANAGEMENT AREA C40

ACRES 17 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 28 Photo #'s 102

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 800 to 1100 ft. Aspect: NW to Slope: 40 to 80 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Mountain hemlock/copperbush/cassiope

Site Index (Farr 50 yr.): 64

Soil: 3659C, 3672B

Parent Material: Volcanic ash; organics derived from sedge/sphagnum

Soil Depth in: <10 - >40 Soil Texture/Drainage: Very poorly to somewhat
poorly drained mucky peat, mucky silt loams and silt loams

Potential of Mass Failure: Moderate to high

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-26-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: High decay. No fluting noted. Moderate mistletoe infection.

Species Composition (trees 5+\" DBH): %WH 75 %MH %AC 25 %SS

Stand Structure: Mosaic structure. Overstory generally decadent, high decay;
intermediates mostly poor vigor/form. Many gaps in unit. Many wet areas.

Ave. Height: 80 ft. Basal Area: 160 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 20 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 10-70% vaccinium. Vaccinium height 3 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 429 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Recommend split yarding on v-notches, full suspension
on slopes over 45 percent with partial suspension elsewhere. Protect v-notch
near SE boundary. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches. Retain advance regeneration. Reduce mistletoe infection to improve forest health. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include group selection and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves not considered due to lack of meeting advance regeneration utilization and visual objectives. Group selection is feasible, but would be difficult to implement with cable system and will not meet advance regeneration and mistletoe reduction objectives. Overstory removal will meet advance regeneration and visual objectives, and will partially meet mistletoe reduction objective.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees up to 18" DBH and protect non-merchantable trees and advance regeneration. Cable yarding will require lateral yarding between yarding corridors to achieve objective. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. DouganDate: 11/ 16/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 16/ 95

UNIT # 6306 of the NW Baranof Timber SaleSTAND #192,195,196 VCU 302 MANAGEMENT AREA C40ACRES 8 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 28 Photo #'s 102Scale: 1:120001/4 Quad ID: Sitka B5SWSITE CHARACTERISTICS:Elevation: 1100 to 1300 ft. Aspect: E to Slope: 55 to 70 %
Landform: Broken mountainslopes and hillslopesPlant Association: Sitka spruce-mountain hemlock/blueberrySite Index (Farr 50 yr.): 62Soil: 3659C, 3672BParent Material: Volcanic ash; organics derived from sedge/sphagnumSoil Depth in: <10 - >40 Soil Texture/Drainage: Very poorly drained to somewhat poorly drained mucky peat, mucky silt loams and silt loamsPotential of Mass Failure: HighSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 6-26-93Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: ModerateDamaging Agents: Low to moderate decay. No fluting or mistletoe noted.Species Composition (trees 5+" DBH): %WH 60 %MH %AC 40 %SSStand Structure: Mosaic structure. Dominants large spruce; codoms. generally good form; intermediates not well stocked, mostly in gaps.Ave. Height: 90-115ft. Basal Area: 400 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+" DBH): 24 in. Ave. TPA (trees 5+" DBH): Ground Cover: 10-50% vaccinium. Vaccinium height 2 ft.Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 202 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Cable yarding specified. Recommend split yarding on v-notches. Full suspension recommended on slopes over 45 percent, partial suspension elsewhere. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain advance regeneration. Protect v-notches. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include group selection and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves not considered due to not meeting advance regeneration utilization and visual objectives. Group selection is feasible, but would be difficult to implement with cable system and will not meet advance regeneration objective. Overstory removal will meet both advance regeneration and visual objectives.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees less than 18" DBH and protect non-merchantable trees and advance regeneration. Cable yarding will require use of lateral yarding between yarding corridors to implement this method. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. DouganDate: 11/ 16/ 95

Certified By:

William R. Dougan
Certified Silviculturist

Date: 11/ 16/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6321 of the NW Baranof Timber Sale

STAND #202,206,402 VCU 302 MANAGEMENT AREA C40

ACRES 6 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 28 Photo #'s 101

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 1200 to 1300 ft. Aspect: SW to Slope: 25 to 45 %

Landform: Smooth, infrequently dissected mountainslopes; broken mountainslopes and hillslopes

Plant Association: Sitka spruce/blueberry

Site Index (Farr 50 yr.): 63

Soil: 3548E, 3672B

Parent Material: Volcanic ash and organics derived from sedge/sphagnum/mosses

Soil Depth in: <10 - >51 Soil Texture/Drainage: Very poorly to well drained mucky peat and mucky silt loams

Potential of Mass Failure: Low

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-15-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted. Pinicola common in unit

Species Composition (trees 5+\" DBH): %WH 70-75 %MH %AC 25-30%SS

Stand Structure: Uneven aged stand with multiple canopy layers. Dominants with heavy cyll(hemlock) to good form (spruce); codoms./intermeds. mostly good form.

Ave. Height: 105-115ft Basal Area: 280 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 18-20in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 35-60% vaccinium. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 151 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Recommend partial suspension to minimize soil disturbance. Protect v-notch in center of unit. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to produce the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but would be difficult to implement with cable system. Clearcut reserves meets regeneration needs, but will not meet visual objective.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be either scattered through unit or (more likely) left in small groups between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 16/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 16/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6322 of the NW Baranof Timber Sale

STAND #202,206,402 VCU 302 MANAGEMENT AREA C40

ACRES 16 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 28 Photo #'s 101

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: _____ to _____ ft. Aspect: S to _____ Slope: 10 to 80 %

Landform: Smooth, infrequently dissected mountainslopes; broken mountainslopes and hillslopes

Plant Association: Sitka spruce/blueberry

Site Index (Farr 50 yr.): 74

Soil: 3548E, 3672B

Parent Material: Volcanic ash and organics derived from sedge/sphagnum

Soil Depth in: <10 - >51 Soil Texture/Drainage: Very poorly drained to well drained mucky peat and mucky silt loams

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-11-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 55-60 %WH _____ %MH _____ %AC 40-45%SS

Stand Structure: Uneven aged stand with multiple canopy layers. Dominants/codoms. show wind damage; intermediates of poor form/vigor.

Ave. Height: 110 ft. Basal Area: 280 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 18 in. Ave. TPA (trees 5+\" DBH): _____

Ground Cover: 30% vaccinium cover. Vaccinium height 1-2 ft.

Total Net Sawlog Vol/Acre: _____ MBF Total Unit Vol: 404 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Unit contains rocky soils; recommend at least partial suspension to minimize surface disturbance. Protect v-notches on W and SW boundaries. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches and rocky soils. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but would be difficult to implement with cable system. Clearcut/reserves will meet regeneration needs, but will not meet visual objective.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left scattered through unit or (more likely) in small groups through the unit between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 16/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 16/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6331 of the NW Baranof Timber Sale

STAND #192,196 VCU 302 MANAGEMENT AREA C40

ACRES 36 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 29 Photo #'s 73

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 300 to 1100 ft. Aspect: E to Slope: 30 to 70 %

Landform: Smooth, frequently dissected, shallowly incised mountainslopes; broken mountainslopes and hillslopes

Plant Association: Sitka spruce-mountain hemlock/blueberry

Site Index (Farr 50 yr.): 92

Soil: 3221D, 3639B

Parent Material: Colluvium, residuum and volcanic ash

Soil Depth in: <10 - >40 Soil Texture/Drainage: Poorly drained to well drained silt loams

Potential of Mass Failure: Moderate to high

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 6-26-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting noted. Moderate mistletoe infection in unit.

Species Composition (trees 5+" DBH): %WH 40-45 %MH %AC 55-60 %SS

Stand Structure: Storied stand with multiple canopy layers. Dominants decadent; codoms. generally good form; intermediates filling in gaps.

Ave. Height: 90-115ft. Basal Area: 360 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 20 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 0-40% vaccinium, 10-50% rusty. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 908 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Recommend full suspension on slopes greater than 70 percent and partial suspension elsewhere. Class I channels have been marked and need protection. Three v-notches that bisect unit need protection. Place S boundary at or above slope break of tributary that flows into Class I channel. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain advance regeneration. Protect v-notches. Reduce mistletoe infection to improve forest health. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include group selection and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves not considered due to method not meeting advance regeneration retention and visual objectives. Group selection is feasible, but will be difficult to implement with cable system. Overstory removal will meet advance regeneration and visual objectives, and will partially meet the mistletoe reduction objective.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees up to 18" DBH and protect non-merchantable trees and advance regeneration. Cable yarding will require lateral yarding between yarding corridors to implement this method. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. DouganDate: 11/ 16/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 16/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6332 of the NW Baranof Timber Sale

STAND #192,194

VCU 302

MANAGEMENT AREA C40

ACRES 7 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 29 Photo #'s 73

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 500 to 700 ft. Aspect: NE to Slope: 40 to 60 %
Landform: broken mountainslopes and hillslopes

Plant Association: Sitka spruce-mountain hemlock/blueberry

Site Index (Farr 50 yr.): 83

Soil: 3644C

Parent Material: volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: deep, somewhat poorly drained
mineral soils

Potential of Mass Failure: moderate

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 6-25-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: low

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 20 %WH 60 %MH %AC 20 %SS

Stand Structure: Storied stand with 4 canopy layers. Dominants sparse; codoms. predominate, generally good form/vigor; intermediates of variable form.

Ave. Height: 80-100ft. Basal Area: 200sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 22 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 0-30% vaccinium cover. Vaccinium height 1 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 177 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Place boundaries at or above the slope break of v-notches on W and E boundaries and protect v-notches. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but will be difficult to implement with cable system. Clearcut/reserves will meet regeneration needs, and will provide variety in forest structure in this landscape.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be either scattered through unit or (more likely) left in small groups through unit between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 16/ 95

Certified By:

William R. Dougan
Certified Silviculturist

Date: 11/ 16/ 95

UNIT # 6333 of the NW Baranof Timber SaleSTAND # 190,193,194,640 VCU 302
42 300MANAGEMENT AREA C40ACRES 11 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 29 Photo #'s 73

Scale: 1:12000

1/4 Quad ID: Sitka B5SWSITE CHARACTERISTICS:Elevation: 300 to 700 ft. Aspect: NE to N Slope: 30 to 90 %
Landform: broken mountainslopes and hillslopesPlant Association: Mixed conifer/blueberrySite Index (Farr 50 yr.): 83Soil: 3622D; 3644CParent Material: volcanic ashSoil Depth in: <20 - >40 Soil Texture/Drainage: shallow to deep, well drained
mineral soils; deep, somewhat poorly drained mineral soilsPotential of Mass Failure: moderate to highSTAND CHARACTERISTICS:Stand Examination: Type walk-through exam Date 6-25-93Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: lowDamaging Agents: Low decay. No fluting or mistletoe noted.Species Composition (trees 5+\" DBH): %WH 30 %MH 60 %AC 10 %SSStand Structure: Mosaic stand with 4 canopy layers. Dominants sparse, decadent;
codoms. with good form; intermediates are small, not vigorous.Ave. Height: 80-90 ft. Basal Area: 400 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+\" DBH): 22 in. Ave. TPA (trees 5+\" DBH):Ground Cover: 10-30% vaccinium. Vaccinium height 1 ft.Total Net Sawlog Vol/Acre: MBFTotal Unit Vol: 278 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Cable yarding specified. Slope limit for harvest is 60 percent. Some oversteep
and unstable areas in unit. Recommend full suspension to protect soils. Pro-
tect emergent wetland and stream channels at base of unit. Protect v-notches
on the E and W boundaries. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU's 300 and 302 have been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain cedar across the landscape where it occurs. Protect v-notches and wetlands.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but would be difficult to implement with cable system. Clearcut/reserves will meet regeneration needs and cedar retention objective (by planting).

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through the unit or (more likely) in small groups between yarding corridors. Cable yard. Rely on natural regeneration, but plan on planting cedar at wide spacing if regeneration is inadequate.

Prepared By: William R. DouganDate: 11/ 16/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 16/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6334 of the NW Baranof Timber Sale

STAND #40,44,48
192,195,196

VCU 300
302

MANAGEMENT AREA C40

ACRES 11 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 29 Photo #'s 73

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 900 to 1100 ft. Aspect: E to NE Slope: 40 to 70 %

Landform: smooth, infrequently dissected mountainslopes; broken mountainslopes and hillslopes

Plant Association: Sitka spruce/blueberry

Site Index (Farr 50 yr.): 94

Soil: 3517D; 3659C

Parent Material: volcanic ash

Soil Depth in: <20 - >40 Soil Texture/Drainage: deep, well drained mineral soils; very shallow to deep, poorly drained mineral soils

Potential of Mass Failure: moderate to high

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 6-25-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: low

Damaging Agents: Moderate decay. No fluting noted. Light mistletoe infection.

Species Composition (trees 5+\" DBH): 80 %WH %MH %AC 20 %SS

Stand Structure: Storied stand with 4 canopy layers. Dominants/codoms. decadent but variable form/vigor; intermediates poor vigor (suppressed).

Ave. Height: 80-110ft. Basal Area: 400sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 18-24in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 0-20% vaccinium. Vaccinium height 1 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 278 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Recommend partial suspension to protect steep and unstable areas, with full suspension on slopes steeper than 70 percent. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU's 300 and 302 have been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Reduce mistletoe infection to improve forest health. Protect steep and unstable soils.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but would be difficult to implement with cable system. Clearcut/reserves will meet regeneration needs and will meet mistletoe reduction objective.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or (more likely) in small groups through unit between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 16/ 95Certified By: 
Certified SilviculturistDate: 11/ 16/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 6341 of the NW Baranof Timber SaleSTAND #221,224 VCU 302 MANAGEMENT AREA C40ACRES 36 Determined How: GIS By Whom: M. Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 27 Photo #'s 29Scale: 1:120001/4 Quad ID: Sitka B5SWSITE CHARACTERISTICS:Elevation: 50 to 500 ft. Aspect: SW to W Slope: 25 to 60 %
Landform: Gently sloping and rolling lowlandsPlant Association: Sitka spruce/blueberrySite Index (Farr 50 yr.): 56Soil: 6139BParent Material: Volcanic ashSoil Depth in: <10 Soil Texture/Drainage: Poorly drained silt loamsPotential of Mass Failure: ModerateSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 7-14-94Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: ModerateDamaging Agents: Moderate decay. No fluting or mistletoe noted.Species Composition (trees 5+\" DBH): 85 %WH %MH %AC 15 %SSStand Structure: Mosaic structure of small blowdown patches mixed with patches of pole/small sawtimber size trees. Dominants highly defective.Ave. Height: 110-115ft Basal Area: 400 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+\" DBH): 24 in. Ave. TPA (trees 5+\" DBH): Ground Cover: 30% vaccinium cover, <5% rusty. Vaccinium height 1-2 ft.Total Net Sawlog Vol/Acre: MBFTotal Unit Vol: 1073 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Helicopter yarding required. Directionally fall trees away from v-notches.V-notch that splits northern part of unit needs protection. Within visual quality objective. Do not move boundaries closer to the beach.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to produce the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain advance regeneration. Protect v-notches. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include overstory removal and group selection. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves not considered due to lack of meeting advance regeneration retention and visual objectives. Group selection is feasible, but will not meet advance regeneration retention objective. Overstory removal will meet advance regeneration and visual objectives.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees up to 18" DBH and protect non-merchantable trees and advance regeneration. Helicopter yard. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. DouganDate: 11/ 16/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 16/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 6342 of the NW Baranof Timber SaleSTAND #206,221,222, VCU 302 MANAGEMENT AREA C40
223ACRES 13 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 28 Photo #'s 100Scale: 1:120001/4 Quad ID: Sitka B5SWSITE CHARACTERISTICS:Elevation: _____ to _____ ft. Aspect: S to W Slope: 5 to 55 %Landform: Broken mountainslopes and hillslopes; gently sloping and rolling lowlandsPlant Association: Mixed conifer/blueberrySite Index (Farr 50 yr.): 74Soil: 3644C, 6139BParent Material: Volcanic ashSoil Depth in: <10 - >40 Soil Texture/Drainage: Poorly drained to somewhat poorly drained silt loamsPotential of Mass Failure: ModerateSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 7-11-94Stand History: Wind processes are the primary disturbance agentPotential Windthrow Hazard: ModerateDamaging Agents: Moderate decay. No fluting or mistletoe noted.Species Composition (trees 5+\" DBH): 75 %WH 5 %MH <5 %AC 20 %SSStand Structure: Uneven aged stand with multiple canopy layers. Wide range of diameter classes, growth slow due to reduced soil drainage.Ave. Height: 115 ft. Basal Area: 400 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+\" DBH): 18-20in. Ave. TPA (trees 5+\" DBH): _____Ground Cover: 30% vaccinium cover. Vaccinium height 1-2 ft.Total Net Sawlog Vol/Acre: _____ MBF Total Unit Vol: 337 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Combination of cable and helicopter yarding specified - approximately 4 acres can be cable yarded. Recommend partial cut to protect oversteepened areas, v-notches and remnant slides in unit. Place boundary above slope break on v-notches leading into Class III channel on W boundary of unit. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain advance regeneration. Protect oversteep and unstable soils and v-notches. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include group selection and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves not considered due to lack of meeting advance regeneration retention and visual objectives. Group selection is feasible, but would likely require helicopter yarding entire unit to implement this method; in addition, advance regeneration retention objective would not be met. Overstory removal will meet advance regeneration retention and visual objectives.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees less than 18" DBH and protect non-merchantable trees and advance regeneration. Area to be cable yarded will require lateral yarding between yarding corridors to implement this method. Helicopter and cable yarding. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. DouganDate: 11/ 16/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 16/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6343 of the NW Baranof Timber Sale

STAND #223,224,228, VCU 302 MANAGEMENT AREA C40
229

ACRES 11 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 28 Photo #'s 100
Scale: 1:12000
1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: _____ to _____ ft. Aspect: S to SW Slope: 15 to 35 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock/blueberry and western hemlock-Alaska yellow cedar/blueberry

Site Index (Farr 50 yr.): 67

Soil: 3639B, 3644C

Parent Material: Volcanic ash

Soil Depth in: <10 - >40 Soil Texture/Drainage: Poorly drained to somewhat poorly drained silt loams

Potential of Mass Failure: Low

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-11-94

Stand History: Wind processes are the predominant disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+" DBH): 60-65 %WH %MH 25 %AC 10-15%SS

Stand Structure: Uneven aged stand with multiple canopy layers. Overstory slow growing mixture of species; intermediates well stocked.

Ave. Height: 110 ft. Basal Area: 320 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 14 in. Ave. TPA (trees 5+" DBH): _____

Ground Cover: 30% vaccinium, <5% rusty. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: _____ MBF Total Unit Vol: 319 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Ensure boundary excludes wet soils above and below unit. Recommend partial suspension with full suspension over v-notches. Place unit boundary above slope break of Class III channel along W boundary. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect wet soils and v-notches. Retain cedar across the landscape where it occurs. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to difficult implementation of this method with cable system. Clearcut/reserves is feasible, but will not meet objectives of cedar retention (unless planting occurs) and visuals. Seed tree cut will meet cedar regeneration objective, and will partially meet visual objective.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain 10-12 cedar trees per acre for seed trees. Trees may be left either scattered through unit or (more likely) left in small groups through the unit between yarding corridors. Orient leave trees to minimize blowdown risk, where possible to do so. Cable yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 17/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 17/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 6344 of the NW Baranof Timber SaleSTAND #229,231 VCU 302 MANAGEMENT AREA C40ACRES 10 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 28 Photo #'s 100Scale: 1:120001/4 Quad ID: Sitka B5SWSITE CHARACTERISTICS:Elevation: 600 to 850 ft. Aspect: S to SW Slope: 30 to 50 %
Landform: Broken mountainslopes and hillslopesPlant Association: Western hemlock-Alaska yellow cedar/blueberrySite Index (Farr 50 yr.): 80Soil: 3644CParent Material: Volcanic ashSoil Depth in: >40 Soil Texture/Drainage: Somewhat poorly drained
silt loamsPotential of Mass Failure: Low to moderateSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 7-8-94Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: LowDamaging Agents: Moderate to high decay. No fluting noted. Low mistletoe
infection. Pinicola common in unit. Cedar decline noted.Species Composition (trees 5+" DBH): 30 %WH 55 %MH 15 %AC SSStand Structure: Uneven aged stand with 3 canopy layers. Overstory decadent
with high decay; intermediates releasing in gaps, generally good form.Ave. Height: 70 ft. Basal Area: 280 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+" DBH): 12-14in. Ave. TPA (trees 5+" DBH): Ground Cover: 10-25% vaccinium, <5-15% rusty. Vaccinium height 1-2 ft.Total Net Sawlog Vol/Acre: MBFTotal Unit Vol: 252 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Cable yarding specified. Partial suspension recommended. Protect v-notches on
E and S boundaries. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain cedar across the landscape where it occurs. Protect v-notches. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to difficulty in implementing this method with cable system. Clearcut/reserves is feasible, but will not meet cedar regeneration (without planting) and visual objectives. Seed tree cut will meet cedar regeneration objective and will partially meet visual objective.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain 10-12 cedar seed trees per acre either scattered through the unit or (more likely) left in small groups through the unit between yarding corridors. Orient leave trees to minimize blowdown risk, where possible to do so. Cable yard. Rely on natural regeneration.

Prepared By: William R. Dougan

Date: 11/ 17/ 95

Certified By: 
Certified Silviculturist

Date: 11/ 17/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6345 of the NW Baranof Timber Sale

STAND #206,222,223 VCU 302 MANAGEMENT AREA C40
228

ACRES 5 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 28 Photo #'s 100

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 650 to 850 ft. Aspect: W to _____ Slope: 30 to 70 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock/blueberry and western hemlock-Alaska yellow cedar/blueberry

Site Index (Farr 50 yr.): 80

Soil: 3644C

Parent Material: Volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: Somewhat poorly drained silt loams

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-8-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Low

Damaging Agents: High decay. No fluting or mistletoe noted. No cedar decline noted. Pinicola common in unit.

Species Composition (trees 5+" DBH): 95 %WH %MH 5 %AC %SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants decadent; codoms. generally good form but some decay; intermediates patchy distribution.

Ave. Height: 90-95 ft. Basal Area: 160 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 12-14 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 10-35% vaccinium, <5% rusty. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 126 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Ensure backline is below cliffs. Recommend full suspension across v-notches and at least partial suspension elsewhere. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to produce the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain cedar across the landscape where it occurs. Protect cliffs and v-notches. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to difficulty in implementing this method with cable system. Clearcut/reserves is feasible, but will not meet cedar regeneration (unless planted) and visual objectives. Seed tree cut will meet cedar regeneration objective and partially meet visual objective.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain 10-12 cedar seed trees per acre either scattered through the unit or (more likely) left in small groups through the unit between yarding corridors. Orient leave trees to minimize blowdown risk, where possible to do so. Cable yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 17/ 95

Certified By:

William R. Dougan
Certified Silviculturist

Date: 11/ 17/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6361 of the NW Baranof Timber Sale

STAND #230,231,238 VCU 302 MANAGEMENT AREA C40

ACRES 20 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 28 Photo #'s 100

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 600 to 800 ft. Aspect: SW to Slope: 40 to 70 %
Landform: broken mountainslopes and hillslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 89

Soil: 3639B; 3644C; 3653D

Parent Material: volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: deep, somewhat poorly drained
to well drained mineral soils; very shallow, poorly drained mineral soils over-
lying compact ash

Potential of Mass Failure: moderate to high

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 6-22-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: moderate

Damaging Agents: Low decay. No fluting or mistletoe noted.

Species Composition (trees 5+" DBH): 80 %WH %MH %AC 20 %SS

Stand Structure: Uneven-aged stand with multiple canopy layers. Overstory is
generally of good form; understory mostly regeneration on nurse logs.

Ave. Height: 80 ft. Basal Area: 400sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 20 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 20-40% vaccinium cover. Vaccinium height 1-2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 518 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Recommend partial suspension to protect wet and steep
slopes. V-notch that splits N end of unit needs to be protected. Channel to
N and W of unit is Class III and needs to be protected. Unit as planned does
not meet visual quality objective. Adjust boundary to reduce apparent size and
screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but will be difficult to implement with cable system. Clearcut/reserves will meet regeneration needs, but will not meet visual objective.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) either scattered through the unit or (more likely) in small groups through unit between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 17/ 95Certified By: 
Certified SilviculturistDate: 11/ 17/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 6363 of the NW Baranof Timber SaleSTAND #43,424 VCU 300 MANAGEMENT AREA C40
230,231,235 302ACRES 22 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 28 Photo #'s 100Scale: 1:120001/4 Quad ID: Sitka B5SWSITE CHARACTERISTICS:Elevation: 500 to 700 ft. Aspect: SW to _____ Slope: 30 to 50 %
Landform: broken mountainslopes and hillslopesPlant Association: Western hemlock - yellow cedar/blueberrySite Index (Farr 50 yr.): 91Soil: 3653DParent Material: volcanic ashSoil Depth in: >40 Soil Texture/Drainage: deep, well drained mineral
soilsPotential of Mass Failure: highSTAND CHARACTERISTICS:Stand Examination: Type walk-through exam Date 6-22-93Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: moderateDamaging Agents: Moderate decay. No fluting or mistletoe noted. Cedar decline
is evident.Species Composition (trees 5+\" DBH): 50 %WH _____ %MH 50 %AC _____ %SSStand Structure: Mosaic stand with 4 canopy layers. Patches of decadent, heavy
decayed timber mixed in with fairly healthy patches.Ave. Height: 80-100ft. Basal Area: 240 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+\" DBH): 18 in. Ave. TPA (trees 5+\" DBH): _____Ground Cover: 10% Rusty menziesia; 20-50% vaccinium. Vaccinium height 1 ft.Total Net Sawlog Vol/Acre: _____ MBFTotal Unit Vol: 555 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Cable yarding specified. Recommend partial suspension to protect steep slopes.
Directionally fall away from v-notches. Recommend full suspension on slopes
steeper than 70 percent. V-notch that splits east-central portion of unit needs
to be protected. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU's 300 and 302 have been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to produce the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain advance regeneration. Protect steep slopes and v-notches. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and overstory removal. Seed tree cut not considered due to lack of cedar component in stand. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to difficulty in implementing this method with cable system. Clearcut/reserves is feasible for regeneration, but will not meet advance regeneration retention and visual objectives. Overstory removal will meet advance regeneration and visual objectives.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees up to 18" DBH and protect non-merchantable trees and advance regeneration. Cable yarding will require lateral yarding between yarding corridors to implement this method. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. DouganDate: 11/ 17/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 17/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6364 of the NW Baranof Timber Sale

STAND #235,396,397 VCU 302 MANAGEMENT AREA C40

ACRES 9 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 28 Photo #'s 100

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 500 to 600 ft. Aspect: SE to W Slope: 20 to 50 %
Landform: broken mountainslopes and hillslopes

Plant Association: Western hemlock - yellow cedar/blueberry

Site Index (Farr 50 yr.): 71

Soil: 3659C

Parent Material: volcanic ash

Soil Depth in: <20 - >40 Soil Texture/Drainage: deep, somewhat poorly drained
mineral soils; very shallow, poorly drained mineral soils

Potential of Mass Failure: moderate

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 6-23-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: high

Damaging Agents: High decay. No fluting or mistletoe noted. Pinicola common
in unit.

Species Composition (trees 5+" DBH): 60 %WH %MH 20 %AC 20 %SS

Stand Structure: Mosaic stand with 4 canopy layers. Very decadent overstory,
much mortality; understory generally well stocked, healthy.

Ave. Height: 80-100ft. Basal Area: 200 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 24 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 30% Rusty menziesia; 30-50% vaccinium. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 227 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Directionally fall trees away from v-notches and
provide full suspension over notches with partial suspension elsewhere. Within
visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to produce the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include group selection and clearcut/reserves. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but will be difficult to implement with cable system. Clearcut/reserves will meet cedar retention objective through planting.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or (more likely) in small groups through unit between yarding corridors. Cable yard. Rely on natural regeneration, but plan on planting cedar if regeneration is inadequate.

Prepared By: William R. DouganDate: 11/ 17/ 95Certified By: 
Certified SilviculturistDate: 11/ 17/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6371 of the NW Baranof Timber Sale

STAND #204,205,206 VCU 302 MANAGEMENT AREA C40

ACRES 13 Determined How: GIS By Whom: M.Hawks Date: 1993
Aerial Photo: Year 1986 Flight Line 28 Photo #'s 100
Scale: 1:12000
1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 900 to 1100 ft. Aspect: SW to S Slope: 30 to 50 %
Landform: broken mountainslopes and hillslopes

Plant Association: Sitka spruce - mountain hemlock/blueberry

Site Index (Farr 50 yr.): 76

Soil: 3644C

Parent Material: volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: deep, somewhat poorly drained
mineral soils

Potential of Mass Failure: moderate

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 6-22-93
Stand History: Wind and small slide processes are the primary disturbance agents
Potential Windthrow Hazard: high
Damaging Agents: Low decay. No fluting or mistletoe noted.

Species Composition (trees 5+" DBH): 50 %WH 35-40 %MH 10-15 %AC %SS

Stand Structure: Mosaic stand. Overstory generally healthy; intermediates
patchy distribution, some cedar regeneration noted.

Ave. Height: 50-60 ft. Basal Area: 320 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 14 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 20-40% vaccinium cover. Vaccinium height 1 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 388 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Directionally fall trees away from v-notches. Full
suspension recommended (will require reducing yarding distance by 100 ft.) to
protect v-notches. Protect v-notch that splits center of unit. Unit as planned
does not meet visual quality objective. Adjust boundary to reduce apparent
size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 302 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to produce the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain cedar across the landscape where it occurs. Protect soils and v-notches. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to difficulty in implementing this method with cable system. Seed tree cut is feasible, but lack of quality cedar seed trees makes this difficult to achieve. Clearcut/reserves will meet regeneration needs, but will not meet cedar retention and visual objectives.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or (more likely) in small groups through the unit between yarding corridors. Cable yard. Rely on natural regeneration. If cedar regeneration is inadequate, consider planting cedar.

Prepared By: William R. DouganDate: 11/ 17/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 17/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 6372 of the NW Baranof Timber Sale

STAND #45,46,47,49 VCU 300 MANAGEMENT AREA C40

ACRES 11 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 28 Photo #'s 100

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 1000 to 1100 ft. Aspect: SE to Slope: 40 to 50 %
Landform: broken mountainslopes and hillslopes

Plant Association: Western hemlock - yellow cedar/blueberry/skunk cabbage

Site Index (Farr 50 yr.): 78

Soil: 3617D; 3672B; 3644C

Parent Material: volcanic ash; decomposed organics

Soil Depth in: <10 - >40 Soil Texture/Drainage: deep, well drained mineral soils; deep, very poorly drained organic soils over bedrock; very shallow, poorly drained mineral soils overlying compact ash

Potential of Mass Failure: moderate to high

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 6-22-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: high

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 40 %WH %MH 40 %AC 20 %SS

Stand Structure: Mosaic stand with 4 canopy layers. Patchwork of large, defective dominants among patches of smaller, high % cedar trees.

Ave. Height: 60-80 ft. Basal Area: 400 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 22 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 10-40% vaccinium cover. Vaccinium height 1 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 278 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Protect stream course on W boundary. No soils concerns. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to produce the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain advance regeneration. Protect v-notches and streams. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection not considered due to difficulty in implementing this method with cable system. Clearcut/reserves is feasible for regeneration needs, but will not meet advance regeneration retention and visual objectives. Overstory removal will meet advance regeneration retention and visual objectives.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees less than 18" DBH and protect non-merchantable trees and advance regeneration. Cable yarding will require lateral yarding between skyline corridors. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. DouganDate: 11/ 17/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 17/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 6373 of the NW Baranof Timber Sale

STAND #46,47,48,49 VCU 300 MANAGEMENT AREA C40

ACRES 9 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 28 Photo #'s 100

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 900 to 1100 ft. Aspect: SE to Slope: 35 to 60 %
Landform: broken mountainslopes and hillslopes

Plant Association: Sitka spruce/blueberry

Site Index (Farr 50 yr.): 100

Soil: 3617D

Parent Material: volcanic ash

Soil Depth in: <40 Soil Texture/Drainage: deep, well drained mineral soil

Potential of Mass Failure: high

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 6-22-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: high

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+" DBH): 65 %WH %MH %AC 35 %SS

Stand Structure: Mosaic stand with 4 canopy layers. Dominants scattered, decadent; codoms. generally good form; intermediates variable form, mostly in gaps.

Ave. Height: 70 ft. Basal Area: 320sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 22 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 10-30% vaccinium cover. Vaccinium height 1 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 227 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Recommend full suspension for the unit to protect steep, rocky and unstable soils. Protect stream courses on E and S boundaries. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect areas of steep, rocky and unstable soils.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but will be difficult to implement with cable system. Clearcut/reserves will meet regeneration needs.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or (more likely) left in small groups through the unit between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 17/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 17/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 6391 of the NW Baranof Timber Sale

STAND #43,48 VCU 300 MANAGEMENT AREA C40
192,193,194 302

ACRES 3 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 29 Photo #'s 73

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 1000 to 1100 ft. Aspect: NE to SW Slope: 30 to 70 %
Landform: broken mountainslopes and hillslopes

Plant Association: mixed conifer/blueberry

Site Index (Farr 50 yr.): 71

Soil: 3644C; 3672B

Parent Material: volcanic ash; decomposed organics

Soil Depth in: <10 - >40 Soil Texture/Drainage: deep, somewhat poorly drained mineral soils; deep, very poorly drained organic soils overlying bedrock; very shallow poorly drained mineral soils overlying compact ash

Potential of Mass Failure: moderate

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 6-25-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: low

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 25 %WH 25 %MH 25 %AC 25 %SS

Stand Structure: Storied stand with 4 canopy layers. Dominants very defective; codoms. predominate, variable form; intermediates best form/vigor in gaps.

Ave. Height: 90-115ft. Basal Area: 320 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 16-22in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 10% Rusty menziesia; 10-60% vaccinium cover. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 76 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Unit contains some steep slopes. Partial suspension recommended for soil protection. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU's 300 and 302 have been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect steep areas.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but will be difficult to implement with cable system. Clearcut/reserves will meet regeneration needs.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or (more likely) in small groups through unit between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. Dougan

Date: 11/ 17/ 95

Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 17/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 7001 of the NW Baranof Timber Sale

STAND #42,43,417
193,194

VCU 300
302

MANAGEMENT AREA C40

ACRES 13 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 29 Photo #'s 74

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 500 to 800 ft. Aspect: NE to Slope: 30 to 60 %
Landform: broken mountainslopes and hillslopes

Plant Association: Western hemlock/blueberry/shield fern

Site Index (Farr 50 yr.): 77

Soil: 3622D; 3644C; 3672B

Parent Material: volcanic ash; decomposed organics

Soil Depth in: <20 - >40 Soil Texture/Drainage: shallow to deep, well drained
mineral soils; deep, somewhat poorly drained mineral soils; deep, very poorly
drained organic soils; very shallow, poorly drained mineral soils

Potential of Mass Failure: moderate to high

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 6-23-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: low

Damaging Agents: Low decay. No fluting or mistletoe noted. Pinicola present
on some snags in unit.

Species Composition (trees 5+" DBH): 90 %WH 10 %MH %AC %SS

Stand Structure: Storied stand with 3 canopy layers. Dominants scattered;
codoms. variable vigor/form; intermediates very sparse, poor shape.

Ave. Height: 90-100ft. Basal Area: 320 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 18 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 0-30% vaccinium cover. Vaccinium height 1-2 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 328 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Some wet areas and small cliffs present in unit.

Recommend at least partial suspension with full suspension over cliffs and very
shallow soils. Unit as planned does not meet visual quality objective. Adjust
boundary to reduce apparent size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU's 300 and 302 have been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect areas of cliffs and shallow, wet soils. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but will be difficult to implement with cable system. Clearcut/reserves will meet regeneration needs, but will not meet visual objective.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be either left scattered through unit or (more likely) in small groups between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 17/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 17/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 7002 of the NW Baranof Timber Sale

STAND #43

VCU 300

MANAGEMENT AREA C40

ACRES 18 Determined How: GIS By Whom: M. Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 29 Photo #'s 74

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 500 to 700 ft. Aspect: SE to _____ Slope: 35 to 90 %
Landform: broken mountainslopes and hillslopes

Plant Association: Western hemlock - yellow cedar/blueberry/menziesia

Site Index (Farr 50 yr.): 80

Soil: 3622D; 3644C; 3672B

Parent Material: volcanic ash; decomposed organics

Soil Depth in: <10 - >40 Soil Texture/Drainage: shallow to deep, well drained mineral soils; deep, somewhat poorly drained mineral soils; deep, very poorly drained organic soils; very shallow poorly drained mineral soils

Potential of Mass Failure: moderate to high

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 6-23-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: high

Damaging Agents: High decay. No fluting or mistletoe noted. Cedar decline is evident, along with pinicola.

Species Composition (trees 5+ " DBH): 50 %WH %MH 50 %AC %SS

Stand Structure: Mosaic stand with 4 canopy layers. Overstory very decadent, high defect. Understory suppressed, poor form.

Ave. Height: 60-70 ft. Basal Area: 320 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+ " DBH): 16 in. Ave. TPA (trees 5+ " DBH):

Ground Cover: 40% Rusty menziesia; 20-30% vaccinium. Vaccinium height 1-2 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 454 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Full suspension recommended; if not achievable, delete areas steeper than 75 percent. A Class III stream splits the unit from N to S and needs protection. A tributary to Class III stream runs along W side of unit; place boundary at or above slope break. Another stream runs along the NE boundary and needs protection. Unit as planned does not meet visual quality objective. Adjust boundary to reduce apparent size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect steep slopes and stream channels. Minimize negative visual impacts. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but will be difficult to implement with cable system. Clearcut/reserves will meet cedar retention objective (through planting), but will not meet visual objective.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or (more likely) in small groups through unit between yarding corridors. Cable yard. Rely on natural regeneration, but plan on planting cedar at wide spacing to ensure cedar remains a component of regenerating stand.

Prepared By: William R. DouganDate: 11/ 17/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 17/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 7003 of the NW Baranof Timber Sale

STAND #43 VCU 300 MANAGEMENT AREA C40

ACRES 7 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 29 Photo #'s 74

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 600 to 900 ft. Aspect: SE to _____ Slope: 20 to 60 %
Landform: broken mountainslopes and hillslopes

Plant Association: Sitka spruce/blueberry

Site Index (Farr 50 yr.): 80

Soil: 3644C

Parent Material: volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: deep, somewhat poorly drained mineral soils

Potential of Mass Failure: moderate

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 6-23-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted. No cedar decline noted.

Species Composition (trees 5+" DBH): 80 %WH _____ %MH _____ %AC 20 %SS

Stand Structure: Uneven-aged stand with 4 canopy layers. Overstory layers decadent; intermediate layers mostly poor form. Some cedar scattered through unit.

Ave. Height: 60-80 ft. Basal Area: 360sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 24 in. Ave. TPA (trees 5+" DBH): _____

Ground Cover: 0-30% vaccinium cover. Vaccinium height 1 ft.

Total Net Sawlog Vol/Acre: _____ MBF

Total Unit Vol: 177 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Full suspension recommended over v-notches and benches with partial suspension elsewhere. Protect v-notch along E boundary. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical structure across the landscape. Protect benches and v-notches. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but will be difficult to implement with cable system, and this method will not meet cedar regeneration objective without planting. Clearcut/reserves will meet cedar regeneration objective with planting.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) either scattered through unit or (more likely) in small groups through the unit between yarding corridors. Cable yard. Rely on natural regeneration, but plan on planting cedar at wide spacing to ensure cedar remains part of regenerating stand.

Prepared By: William R. DouganDate: 11/ 17/ 95

Certified By:

William R. Dougan
Certified Silviculturist

Date: 11/ 17/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 7004 of the NW Baranof Timber SaleSTAND #43,48,49VCU 300MANAGEMENT AREA C40ACRES 19 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 29 Photo #'s 74Scale: 1:120001/4 Quad ID: Sitka B5SWSITE CHARACTERISTICS:Elevation: 800 to 900 ft. Aspect: S to Slope: 30 to 60 %
Landform: broken mountainslopes and hillslopesPlant Association: Western hemlock - yellow cedar/blueberrySite Index (Farr 50 yr.): 72Soil: 3644C; 3672BParent Material: volcanic ash; decomposed organicsSoil Depth in: <10 - >40 Soil Texture/Drainage: deep, somewhat poorly drained mineral soils; deep, very poorly drained organic soils overlying bedrock; very shallow, poorly drained mineral soils overlying compact ashPotential of Mass Failure: moderateSTAND CHARACTERISTICS:Stand Examination: Type walk-through exam Date 6-23-93Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: moderateDamaging Agents: High decay. No fluting or mistletoe noted. Cedar decline is evident.Species Composition (trees 5+" DBH): 60-65 %WH %MH 25-30 %AC 5-10 %SSStand Structure: Mosaic stand with 4 canopy layers. Overstory very decadent, high defect; intermediate layers suppressed, poor growth/form.Ave. Height: 70-80ft. Basal Area: 440sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+" DBH): 20 in. Ave. TPA (trees 5+" DBH):Ground Cover: 20% Rusty menziesia; 20-50% vaccinium cover. Vaccinium height 2 ft.Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 479 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Cable yarding specified. Recommend partial suspension with full suspension over wet areas steeper than 45 percent. Protect v-notch on E boundary, as well as v-notches that bisect center of unit and on NE boundary. Unit as planned does not meet visual quality objective. Adjust boundary to reduce apparent size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain cedar across the landscape where it occurs. Protect wet soils and v-notches. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to difficulty in implementing this method with cable system and decadence of stand making long-term economics marginal. Seed tree cut is feasible, but lack of quality cedar seed trees makes this method difficult to implement. Clearcut/reserves will meet cedar retention objective (with planting), but will not meet visual objective.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or (more likely) left in small groups through the unit between yarding corridors. Cable yard. Rely on natural regeneration but plan on planting cedar at wide spacing to ensure it remains a component in regenerating stand.

Prepared By: William R. DouganDate: 11/ 17/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 17/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 7005 of the NW Baranof Timber Sale

STAND #43 VCU 300 MANAGEMENT AREA C40

ACRES 19 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 29 Photo #'s 74

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 200 to 500 ft. Aspect: SE to SW Slope: 30 to 70 %
Landform: broken mountainslopes and hillslopes

Plant Association: Western hemlock - yellow cedar/blueberry/menziesia

Site Index (Farr 50 yr.): 83

Soil: 3622D; 3648D

Parent Material: volcanic ash; decomposed organics

Soil Depth in: <20 - >40 Soil Texture/Drainage: shallow to deep, well drained
mineral soils; very shallow, well drained organic soils overlying bedrock

Potential of Mass Failure: high

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 6-23-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: high

Damaging Agents: High decay. No fluting or mistletoe noted. Cedar decline is evident.

Species Composition (trees 5+" DBH): 50 %WH %MH 50 %AC %SS

Stand Structure: Mosaic stand with 4 canopy layers. Overstory layers very decadent with high decay; intermediates suppressed.

Ave. Height: 70-80 ft. Basal Area: 240sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 14 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 10-40% Rusty menziesia; 10-50% vaccinium. Vaccinium height 1 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 479 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Class II fish stream on E boundary needs to be protected. Protect stream that bisects center of unit. Place SW boundary at or above slope break into Class III channel. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain cedar across the landscape where it occurs. Protect v-notches. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to difficulty of implementing this method with cable system, and this method does not meet cedar regeneration objective. Seed tree cut is feasible, but heavy decline/decadence of cedar in stand make seed tree selection difficult. Clearcut/reserves will meet cedar regeneration objective with planting, but will not meet visual objective.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or left in small groups through the unit. Helicopter yard. Rely on natural regeneration, but plan on planting cedar to ensure cedar remains a component in regenerating stand.

Prepared By: William R. Dougan

Date: 11/ 17/ 95

Certified By: William R. Dougan
Certified Silviculturist

Date: 11/ 17/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 7006 of the NW Baranof Timber Sale

STAND #42,43 VCU 300 MANAGEMENT AREA C40

ACRES 5 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 29 Photo #'s 74

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 300 to 500 ft. Aspect: NE to Slope: 30 to 90 %
Landform: broken mountainslopes and hillslopes

Plant Association: Western hemlock - yellow cedar/blueberry/menziesia

Site Index (Farr 50 yr.): 87

Soil: 3622D

Parent Material: volcanic ash

Soil Depth in: <20 - >40 Soil Texture/Drainage: shallow to deep, well drained
mineral soils

Potential of Mass Failure: high

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 6-25-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: moderate

Damaging Agents: Low decay. No fluting or mistletoe noted.

Species Composition (trees 5+ DBH): 80 %WH %MH %AC 20 %SS

Stand Structure: Mosaic stand with 4 canopy layers. Scattered dominants;
codoms. of variable vigor/form; intermediates sparse, poor form/vigor.

Ave. Height: 70-110ft. Basal Area: 520 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+ DBH): 18-20in. Ave. TPA (trees 5+ DBH):

Ground Cover: 20% Rusty menziesia; 10-80% vaccinium cover. Vaccinium height
2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 126 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. No soils concerns. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but will be difficult to implement with cable system. Clearcut/reserves will meet regeneration needs.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be either scattered through unit or (more likely) left in small groups through unit between yarding corridors. Cable yard. Rely on natural regeneration.

Prepared By: William R. Dougan

Date: 11/ 17/ 95

Certified By: William R. Dougan
Certified Silviculturist

Date: 11/ 17/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 7161 of the NW Baranof Timber SaleSTAND #133,138,169, VCU 300 MANAGEMENT AREA C40
360ACRES 22 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 33 Photo #'s 17
Scale: 1:12000
1/4 Quad ID: Sitka B5SESITE CHARACTERISTICS:Elevation: 600 to 1300 ft. Aspect: NE to S Slope: 40 to 80 %
Landform: Undifferentiated mountainslopes; broken mountainslopes and hillslopesPlant Association: Mixed conifer/blueberry and Sitka spruce-mountain hemlock/
blueberrySite Index (Farr 50 yr.): 85Soil: 3002E, 3644C, 3653DParent Material: Colluvium, residuum, and volcanic ashSoil Depth in: 20 - >40 Soil Texture/Drainage: Somewhat poorly drained to
moderately well drained sandy loams and silt loamsPotential of Mass Failure: Low to highSTAND CHARACTERISTICS:Stand Examination: Type Walk-through exam Date 7-7-93Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: ModerateDamaging Agents: Moderate decay. No fluting noted. Moderate mistletoe noted.Pinicola present in unit.Species Composition (trees 5+" DBH): 20 %WH 40 %MH 20 %AC 20 %SSStand Structure: Storied stand with 3 canopy layers. Dominants scattered; codom
layer uniform size; intermediates poor form/vigor. Mistletoe in all layers.Ave. Height: 90-115ft. Basal Area: 200 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+" DBH): 26 in. Ave. TPA (trees 5+" DBH): Ground Cover: 20-40% rusty, 10-60% vaccinium. Vaccinium height 2 ft.Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 555 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Helicopter yarding required. Unit contains some steep and wet areas. Place
NW boundary well above the slope break of channel along boundary. Within
visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain advance regeneration. Protect channels. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include overstory removal and group selection. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves not considered due to not meeting advance regeneration retention and visual objectives. Overstory removal will meet advance regeneration retention and visual objectives.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees up to 18" DBH and protect non-merchantable trees and advance regeneration. Helicopter yard. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. DouganDate: 11/ 17/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 17/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 7162 of the NW Baranof Timber Sale

STAND #133,166,167, VCU 300 MANAGEMENT AREA C40
169,171

ACRES 16 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 33 Photo #'s 17

Scale: 1:12000

1/4 Quad ID: Sitka B5SE

SITE CHARACTERISTICS:

Elevation: 300 to 400 ft. Aspect: N to E Slope: 35 to 50 %
Landform: smooth, infrequently dissected mountainslopes; broken mountainslopes and hillslopes

Plant Association: mixed conifer/blueberry

Site Index (Farr 50 yr.): 74

Soil: 3548E; 3644C; 3653D

Parent Material: volcanic ash; decomposed organics

Soil Depth in: <20 - >40 Soil Texture/Drainage: shallow to deep, well drained mineral soils; very shallow, well drained organic soils overlying bedrock; deep, somewhat poorly drained mineral soils

Potential of Mass Failure: moderate to extreme

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 7-7-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: low

Damaging Agents: Moderate decay. No fluting noted. Moderate mistletoe infection. Pinicola present in unit. Cedar decline noted.

Species Composition (trees 5+\" DBH): %WH 50 %MH 20 %AC 30 %SS

Stand Structure: Mosaic stand with 3 canopy layers. Very few dominants; codoms. similar size, decadent; intermediates suppressed. Mistletoe in all layers.

Ave. Height: 80 ft. Basal Area: 400sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 24 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 20-50% Rusty menziesia; 0-30% vaccinium cover. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 404 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Unit may contain a blindlead. Recommend partial suspension. V-notch in center of unit needs protection. Maintain minimum 100 ft. buffer on Class II channel along E boundary. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain cedar across the landscape where it occurs. Minimize mistletoe infection to improve forest health. Protect v-notches and streams.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal was not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but will be difficult to implement with cable system, and will not meet cedar regeneration retention and mistletoe reduction objectives. Clearcut/reserves will meet cedar regeneration retention objective (with planting) and mistletoe reduction objective.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre either scattered through unit or (more likely) left in small groups through unit between yarding corridors. Cable yard. Rely on natural regeneration, but plan on planting cedar to ensure cedar remains a component in regenerating stand.

Prepared By: William R. DouganDate: 11/ 17/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 17/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 7163 of the NW Baranof Timber Sale

STAND #133,170,171,360 VCU 300

MANAGEMENT AREA C40

ACRES 13 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 33 Photo #'s 17

Scale: 1:12000

1/4 Quad ID: Sitka B5SE

SITE CHARACTERISTICS:

Elevation: 300 to 1000 ft. Aspect: N to NE Slope: 0 to 80 %

Landform: smooth, frequently dissected, shallow incised mountainslopes; broken mountainslopes and hillslopes; alluvial fan

Plant Association: mixed conifer/blueberry

Site Index (Farr 50 yr.): 93

Soil: 3253D; 3644C; 3653D; 5220B

Parent Material: volcanic ash; colluvium; alluvium

Soil Depth in: >40 Soil Texture/Drainage: deep, well drained to somewhat poorly drained mineral soils

Potential of Mass Failure: moderate to high

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 7-7-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: moderate

Damaging Agents: Moderate decay. No fluting noted. Moderate mistletoe infection. Cedar decline evident.

Species Composition (trees 5+\" DBH): %WH 75-80 %MH 20-25 %AC %SS

Stand Structure: Storied stand with 3 canopy layers. Dominants sparse; codoms. decadent, rot evident; intermediates poor vigor/form.

Ave. Height: 80-100ft. Basal Area: 360 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 26 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 20-50% Rusty menziesia; 20-40% vaccinium cover. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 333 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Directionally fall away from v-notches. Protect v-notch that bisects N 1/2 of unit. Place N boundary above slope break of Class III channel. SE corner of unit has mapped riparian habitat with potential fish habitat. Place unit boundary to avoid this area. Lower unit boundary runs along unmapped stream with potential fish habitat; provide minimum 100 ft. buffer in areas of fish habitat. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches and streams. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments are clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of quality cedar in stand. Group selection is feasible, but will not meet cedar regeneration objective (unless planting occurs). Clearcut/reserves will meet cedar regeneration objective with planting.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges or scattered through unit if safety permits. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or in small groups through the unit. Helicopter yard. Rely on natural regeneration but plan on planting cedar to ensure it remains part of the regenerating stand.

Prepared By: William R. Dougan

Date: 11/ 17/ 95

Certified By:

William R. Dougan
Certified Silviculturist

Date: 11/ 17/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 7164 of the NW Baranof Timber Sale

STAND #133,172,174 VCU 300 MANAGEMENT AREA C40

ACRES 4 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 33 Photo #'s 17

Scale: 1:12000

1/4 Quad ID: Sitka B5SE

SITE CHARACTERISTICS:

Elevation: 200 to 300 ft. Aspect: N to NW Slope: 30 to 50 %
Landform: broken mountainslopes and hillslopes

Plant Association: mixed conifer/blueberry/skunk cabbage

Site Index (Farr 50 yr.): 79

Soil: 3644C

Parent Material: volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: deep, somewhat poorly drained
mineral soils

Potential of Mass Failure: moderate

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 7-7-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: low

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 50-60%WH 5-10 %MH 30-35 %AC 5-10 %SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Dominants/codoms. are
decadent; intermediates mostly suppressed.

Ave. Height: 60-80 ft. Basal Area: 240 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 20 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 20-40% Rusty menziesia; 10-70% vaccinium cover. Vaccinium height
2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 101 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Recommend partial suspension to minimize surface
disturbance. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical structure across the landscape. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to difficulty in implementing this method with cable system. Seed tree cut is feasible for regeneration, but lack of quality cedar seed trees in stand will make this difficult to implement. Clearcut/reserves will meet cedar regeneration retention objective (by planting).

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees to be left may be scattered through the unit or (more likely) left in small groups through the unit between yarding corridors. Cable yard. Rely on natural regeneration, but plan on planting cedar to ensure it remains a component in regenerating stand.

Prepared By: William R. DouganDate: 11/ 17/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 17/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 7221 of the NW Baranof Timber SaleSTAND # 133 VCU 300 MANAGEMENT AREA C40ACRES 15 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 33 Photo #'s 15Scale: 1:120001/4 Quad ID: B5SESITE CHARACTERISTICS:Elevation: 700 to 1100 ft. Aspect: E to SE Slope: 50 to 90+ %
Landform: broken mountainslopes and hillslopesPlant Association: Western hemlock - yellow cedar/blueberry and mixed conifer/blueberrySite Index (Farr 50 yr.): 76Soil: 3648DParent Material: volcanic ash; decomposed organicsSoil Depth in: <20 Soil Texture/Drainage: shallow, well drained mineral soils; very shallow, well drained organic soils overlying bedrockPotential of Mass Failure: highSTAND CHARACTERISTICS:Stand Examination: Type walk-through exam Date 7-13-93Stand History: Wind and small slide processes are the primary disturbance agentsPotential Windthrow Hazard: moderateDamaging Agents: Moderate decay. No fluting noted. Light mistletoe infection noted. No cedar decline noted.Species Composition (trees 5+\" DBH): 70 %WH %MH 30 %AC %SSStand Structure: Mosaic stand with 3 canopy layers. Dominants/codoms. of mixed vigor, cedar better than hemlock; intermediates poor form/vigor.Ave. Height: 100-110ft Basal Area: 280 sq.ft. Ave. Age: 250+ yr.Ave. DBH (trees 5+\" DBH): 18-22in. Ave. TPA (trees 5+\" DBH): Ground Cover: <5-10% Rusty menziesia cover; 35-60% vaccinium cover. Vaccinium height 2-3 ft.Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 379 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:Helicopter yarding required. Some wet areas are present. Unit is very dissected. Class II fish habitat ends at S unit boundary, but indicators of recent surface erosion and high mass movement hazard warrant an extended Class III buffer. Lower unit boundary should be placed well back from the stream and active slide zones. Protect v-notches in unit. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches and streams. Retain advance regeneration. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include group selection and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves not considered due to not meeting advance regeneration retention and visual objectives. Group selection is feasible, but will not meet advance regeneration retention objective. Overstory removal will meet objectives.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees less than 18" DBH and protect non-merchantable trees and advance regeneration. Helicopter yard. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. Dougan

Date: 11/ 20/ 95

Certified By:

William R. Dougan
Certified Silviculturist

Date: 11/ 20/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 7222 of the NW Baranof Timber Sale

STAND #133,151 VCU 300 MANAGEMENT AREA C40

ACRES 4 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 33 Photo #'s 15

Scale: 1:12000

1/4 Quad ID: Sitka B5SE

SITE CHARACTERISTICS:

Elevation: 700 to 800 ft. Aspect: W to SW Slope: 20 to 55 %
Landform: broken mountainslopes and hillslopes

Plant Association: Sitka spruce/blueberry; Western hemlock - yellow cedar/blueberry

Site Index (Farr 50 yr.): 75

Soil: 3648D

Parent Material: volcanic ash; decomposed organics

Soil Depth in: <20 Soil Texture/Drainage: shallow, well drained mineral soils; very shallow, well drained organic soils overlying bedrock

Potential of Mass Failure: high

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 7-13-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: moderate

Damaging Agents: Moderate decay. No fluting noted. Mistletoe infection light to moderate. Cedar decline evident.

Species Composition (trees 5+\" DBH): 70 %WH %MH 15 %AC 15 %SS

Stand Structure: Mosaic stand with 3 canopy layers. Upper slopes hemlock/spruce with overstory decadent; lower slopes more open, decadent stand with cedar.

Ave. Height: 100-105ft Basal Area: 280 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 20-22in. Ave. TPA (trees 5+\" DBH):

Ground Cover: <5-10% Rusty menziesia; 25-45% vaccinium cover. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 101 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. No soils concerns. Maintain boundary above the slope break on v-notch along W side. Class II fish habitat begins just downstream from SW corner of unit. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain advance regeneration. Protect v-notches and streams. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include group selection and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves not considered due to not meeting advance regeneration retention and visual objectives. Group selection is feasible, but will not meet advance regeneration retention objective. Overstory removal will meet objectives.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees up to 18" DBH and protect nonmerchantable trees and advance regeneration. Helicopter yard. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. DouganDate: 11/ 20/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 20/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 7223 of the NW Baranof Timber Sale

STAND #133,147,409 VCU 300 MANAGEMENT AREA C40

ACRES 14 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 33 Photo #'s 15

Scale: 1:12000

1/4 Quad ID: Sitka B5SE

SITE CHARACTERISTICS:

Elevation: 900 to 1100 ft. Aspect: SW to Slope: 25 to 60 %
Landform: broken mountainslopes and hillslopes

Plant Association: mixed conifer/blueberry

Site Index (Farr 50 yr.): 75

Soil: 3648D

Parent Material: volcanic ash; decomposed organics

Soil Depth in: <20 Soil Texture/Drainage: shallow, well drained mineral soils; very shallow, well drained organic soils overlying bedrock

Potential of Mass Failure: high

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 7-13-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: moderate

Damaging Agents: Moderate decay. No fluting noted. Light mistletoe infection. Light cedar decline noted.

Species Composition (trees 5+\" DBH): 10-15 %WH 10-15 %MH 40-45 %AC 25-30%SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Dominants scattered, defective; codoms. variable form/vigor; intermediates best in gaps.

Ave. Height: 85-95 ft. Basal Area: 280sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 14-18in. Ave. TPA (trees 5+\" DBH):

Ground Cover: <5-10% Rusty menziesia; 45-65% vaccinium cover. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 353 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. No soils concerns. V-notches in center of unit need protection. Maintain a vegetated buffer between upper end of v-notch channel along W boundary and the unit, with selective removal of merchantable trees. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain advance regeneration. Retain cedar across the landscape where it occurs. Protect v-notches. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include seed tree cut and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Clearcut/reserves not considered due to not meeting advance regeneration retention, cedar retention (without planting) and visual objectives. Group selection not considered due to not meeting advance regeneration retention and cedar retention (without planting) objectives. Seed tree cut is feasible, but lack of quality cedar seed trees and not meeting advance regeneration objective make this method difficult to implement. Overstory removal best meets all objectives.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees less than 18" DBH and protect nonmerchantable trees and advance regeneration. Helicopter yard. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. DouganDate: 11/ 20/ 95

Certified By:


Certified SilviculturistDate: 11/ 20/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 7262 of the NW Baranof Timber Sale

STAND #149,156,160 VCU 300 MANAGEMENT AREA C40

ACRES 12 Determined How: GIS By Whom: M. Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 33 Photo #'s 15

Scale: 1:12000

1/4 Quad ID: Sitka B5SE

SITE CHARACTERISTICS:

Elevation: 400 to 1000 ft. Aspect: E to SE Slope: 60 to 90 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Mixed conifer/blueberry/skunk cabbage

Site Index (Farr 50 yr.): 76

Soil: 3648D

Parent Material: Volcanic ash and organics derived from forest litter/mosses

Soil Depth in: <20 Soil Texture/Drainage: Well drained silt loams
and sandy loams

Potential of Mass Failure: High

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-8-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: High

Damaging Agents: High decay. No fluting noted. Moderate mistletoe infection.

Species Composition (trees 5+\" DBH): 10-15 %WH 50-55 %MH 15-20 %AC 10-15%SS

Stand Structure: Mosaic with 4 canopy layers. Overstory decadent, some blow-down in unit; understory filling in gaps.

Ave. Height: 80-100ft. Basal Area: 360 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 20 in. Ave. TPA (trees 5+\" DBH): _____

Ground Cover: 10-30% rusty, 10-40% vaccinium. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: _____ MBF

Total Unit Vol: 335 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Three v-notches that bisect unit need protection.

No soils concerns. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain cedar across the landscape where it occurs. Protect v-notches.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of suitable cedar seed trees. Group selection is feasible, but decadence of stand makes long-term management economics marginal and will not meet cedar retention objective unless planted. Clearcut/reserves will meet cedar retention objective by planting.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre either scattered through unit (if safety permits) or around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through the unit or in small groups through the unit. Helicopter yard. Rely on natural regeneration, but plan on planting cedar at wide spacing to ensure cedar remains a component in regenerating stand.

Prepared By: William R. DouganDate: 11/ 20/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 20/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 7264 of the NW Baranof Timber Sale

STAND #149,150,151,156 VCU 300

MANAGEMENT AREA C40

ACRES 9 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 33 Photo #'s 15

Scale: 1:12000

1/4 Quad ID: Sitka B5SE

SITE CHARACTERISTICS:

Elevation: 700 to 800 ft. Aspect: Flat to SE Slope: 0 to 25 %
Landform: broken mountainslopes and hillslopes

Plant Association: mixed conifer/blueberry

Site Index (Farr 50 yr.): 36

Soil: 3648D; 3672B

Parent Material: volcanic ash; decomposed organics

Soil Depth in: <20 - >40 Soil Texture/Drainage: shallow, well drained mineral soils; very shallow, well drained organic soils; deep, very poorly drained organic soils; very shallow, poorly drained mineral soils overlying compact ash

Potential of Mass Failure: moderate to high

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 7-8-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: low

Damaging Agents: Low decay. No fluting noted. Moderate mistletoe infection.

Cedar decline evident.

Species Composition (trees 5+\" DBH): 80 %WH %MH %AC 20 %SS

Stand Structure: Mosaic stand with 4 canopy layers. Dominants/codoms. are decadent; intermediates filling in gaps.

Ave. Height: 100-130ft Basal Area: 200 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 26 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 10% Rusty menziesia; 0-20% vaccinium cover. Vaccinium height 3 ft

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 268 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Small slumps have been identified in unit. Unit contains v-notches; directionally fall away from notches. One or more branches of mapped Class III channel run through N part of unit. Protect these channels. Unit abuts existing slide, and soil scientist needed in placing boundary on NW end to avoid triggering a slide in mapped high hazard soils area. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect high hazard soils and v-notches.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but decadence of stand makes long-term economics marginal. Clearcut/reserves will meet objectives, and is feasible for regenerating stand.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre either scattered through unit (if safety permits) or around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through the unit or in small groups through the unit. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. Dougan

Date: 11/ 20/ 95

Certified By:

William R. Dougan
Certified Silviculturist

Date: 11/ 20/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 7272 of the NW Baranof Timber Sale

STAND #152,153,154 VCU 300 MANAGEMENT AREA C40

ACRES 23 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 34 Photo #'s 177

Scale: 1:12000

1/4 Quad ID: Sitka B5SE

SITE CHARACTERISTICS:

Elevation: 1250 to 1450 ft. Aspect: S to SW Slope: 10 to 60 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock-Alaska yellow cedar/blueberry

Site Index (Farr 50 yr.): 57

Soil: 3635C, 3672B

Parent Material: Volcanic ash and organics derived from sedge/sphagnum

Soil Depth in: <10 - >40 Soil Texture/Drainage: Very poorly drained to moderately well drained mucky peat, mucky silt loams and sandy loams

Potential of Mass Failure: Low

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-15-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Low

Damaging Agents: Moderate decay. No fluting or mistletoe noted. No cedar decline noted.

Species Composition (trees 5+" DBH): 30 %WH 10 %MH 40 %AC 20 %SS

Stand Structure: Uneven aged stand with multiple canopy layers. Overstory layer somewhat decadent; understory layers filling in gaps.

Ave. Height: 90 ft. Basal Area: 400 sq.ft. Ave. Age: 200+ yr.

Ave. DBH (trees 5+" DBH): 14 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 35% vaccinium, some salmonberry scattered through unit. Vaccinium height 1 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 580 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. No soils concerns. Corrugated v-notches split the unit. Five notches need protection. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches. Retain moderate to high canopy retention where possible to do so. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves is feasible for regeneration, but will not meet canopy retention and visual objectives. Group selection best meets objectives.

RECOMMENDED TREATMENT:

Recommended treatment is group selection. Harvest up to 20% of unit in groups 1-2 acres in size this entry. Plan for cutting cycle of 40-50 years, with 20% removal each cutting cycle. Orient groups parallel to v-notches (up/down the slope in oblong shapes). Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 20/ 95Certified By: 
Certified SilviculturistDate: 11/ 20/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 7273 of the NW Baranof Timber Sale

STAND #142,152,158 VCU 300 MANAGEMENT AREA C40

ACRES 14 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 34 Photo #'s 177

Scale: 1:12000

1/4 Quad ID: Sitka B5SE

SITE CHARACTERISTICS:

Elevation: 1300 to 1500 ft. Aspect: S to SW Slope: 40 to 55 %
Landform: Undifferentiated mountainslopes; broken mountainslopes and hillslopes

Plant Association: Western hemlock-Alaska yellow cedar/blueberry/skunk cabbage
and Sitka spruce-mountain hemlock/blueberry

Site Index (Farr 50 yr.): 62

Soil: 3002E, 3635C

Parent Material: Colluvium, residuum and volcanic ash

Soil Depth in: <20 - >40 Soil Texture/Drainage: Somewhat poorly drained to
moderately well drained sandy loams and silt loams

Potential of Mass Failure: Moderate to high

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-15-94

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Low to moderate decay. No fluting or mistletoe noted. No
cedar decline noted.

Species Composition (trees 5+ DBH): 50 %WH %MH 20-25 %AC 25-30%SS

Stand Structure: Uneven aged stand with multiple canopy layers. One area domin-
ated by cedar, other area dominated by spruce. Wide age/size range in unit.

Ave. Height: 75 ft. Basal Area: 280 sq.ft. Ave. Age: 200+ yr.

Ave. DBH (trees 5+ DBH): 12 in. Ave. TPA (trees 5+ DBH):

Ground Cover: 35% vaccinium, traces of salmonberry. Vaccinium height 1 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 353 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Recommend groups are located to minimize impacts
to v-notches in unit. Protect v-notch in center of unit. Place W boundary at
or above slope break of v-notch. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches. Retain moderate to high canopy retention. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves is feasible for regeneration needs, but will not meet canopy retention and visual objectives. Group selection best meets objectives.

RECOMMENDED TREATMENT:

Recommended treatment is group selection. Harvest up to 20% of unit in groups 1-2 acres in size. Plan for cutting cycle of 40-50 years, with 20% removal each cutting cycle. Orient groups parallel to v-notches (up/down slope, with oblong shape). Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 20/ 95

Certified By:

William R. Dougan
Certified SilviculturistDate: 11/ 20/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 7281 of the NW Baranof Timber Sale

STAND #154,158,161, VCU 300 MANAGEMENT AREA C40
162,209

ACRES 38 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 34 Photo #'s 176
Scale: 1:12000
1/4 Quad ID: B5SE

SITE CHARACTERISTICS:

Elevation: _____ to _____ ft. Aspect: W to NW Slope: 20 to 70 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 65

Soil: 3635C, 3644C, 3653C, 3672B

Parent Material: Volcanic ash and organics derived from sedge/sphagnum

Soil Depth in: <10 - >40 Soil Texture/Drainage: Very poorly drained to moderately well drained mucky peat, silt loams and sandy loams

Potential of Mass Failure: Low

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-15-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+" DBH): 80 %WH %MH %AC 20 %SS

Stand Structure: Uneven aged stand with multiple canopy layers. Cedar are scattered through unit. Lower portion of unit is more productive site.

Ave. Height: 130 ft. Basal Area: 420 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 28 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 10% rusty, 25% vaccinium. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 1009 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit is dissected and contains old slumps and wet areas. Request a soil scientist be present during layout to help determine location of groups. Five v-notches split unit and need protection. Protect mapped Class II channel W of unit. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to produce the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches. Retain moderate to high canopy retention. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves is feasible for regeneration needs, but will not meet canopy retention and visual objectives. Group selection best meets objectives.

RECOMMENDED TREATMENT:

Recommended treatment is group selection. Harvest up to 20% of unit this entry in groups 1-2 acres in size. Plan for cutting cycle of 40-50 years, with 20% removal each cycle. Orient groups parallel to v-notches (up/down slope, with oblong shape). Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 20/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 20/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 7282 of the NW Baranof Timber Sale

STAND #158,162,209 VCU 300 MANAGEMENT AREA C40

ACRES 12 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 34 Photo #'s 176

Scale: 1:12000

1/4 Quad ID: Sitka B5SE

SITE CHARACTERISTICS:

Elevation: _____ to _____ ft. Aspect: W to NW Slope: 25 to 60 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Mixed conifer/blueberry

Site Index (Farr 50 yr.): 81

Soil: 3644C, 3653C

Parent Material: Volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: Somewhat poorly drained to moderately well drained sandy loams and silt loams

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-15-94

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted. No cedar decline noted.

Species Composition (trees 5+" DBH): 50 %WH 5 %MH 25 %AC 20 %SS

Stand Structure: Mosaic structure. Transition zone of several plant association types, with all species as dominants in areas.

Ave. Height: 110 ft. Basal Area: 360 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 15 in. Ave. TPA (trees 5+" DBH): _____

Ground Cover: 25% vaccinium, traces of rusty, devil's club throughout area.

Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: _____ MBF Total Unit Vol: 303 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit contains some oversteep slopes, slumps, and slides, and is dissected. Soil scientist requested during layout to help determine location of groups. Two v-notches that split unit need protection. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to produce the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect soils and v-notches. Retain moderate to high canopy retention. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/management of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves is feasible for regeneration needs, but will not meet canopy retention and visual objectives. Group selection will meet objectives.

RECOMMENDED TREATMENT:

Recommended treatment is group selection. Harvest up to 20% of unit this entry in groups 1-2 acres in size. Plan for cutting cycle of 40-50 years with 20% removal each cycle. Orient groups parallel to v-notches (up/down slope and oblong shape). Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 20/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 20/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 7283 of the NW Baranof Timber Sale

STAND #161,163 VCU 300 MANAGEMENT AREA C40

ACRES 27 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 34 Photo #'s 176

Scale: 1:12000

1/4 Quad ID: Sitka B5SE

SITE CHARACTERISTICS:

Elevation: _____ to _____ ft. Aspect: W to NW Slope: 10 to 75 %

Landform: Smooth, infrequently dissected mountainslopes; broken mountainslopes and hillslopes

Plant Association: Western hemlock/blueberry and western hemlock-Alaska yellow cedar/blueberry

Site Index (Farr 50 yr.): 69

Soil: 3553D, 3653C, 3672B

Parent Material: Volcanic ash and organics derived from sedge/sphagnum

Soil Depth in: <10 - >40 Soil Texture/Drainage: Poorly drained to moderately well drained mucky peat, sandy loams and silt loams

Potential of Mass Failure: Low to moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-15-94

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Low to moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 85-90 %WH _____ %MH _____ %AC 10-15%SS

Stand Structure: Uneven aged stand with multiple canopy layers. Overstory and understory layers are vigorous, with many size and age classes present.

Ave. Height: 125 ft. Basal Area: 360 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 24 in. Ave. TPA (trees 5+\" DBH): _____

Ground Cover: 20% vaccinium, varying amounts of rusty, devil's club found in draws. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: _____ MBF Total Unit Vol: 800 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. No soils concerns. V-notch that splits unit will need protection. Protect mapped Class II channel west of unit. Protect Class III channel south of unit with a buffer. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to produce the greatest combination of benefits. These lands have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches and streams. Retain moderate to high canopy retention. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves is feasible for regeneration needs, but will not meet canopy retention and visual objectives. Group selection will meet objectives.

RECOMMENDED TREATMENT:

Recommended treatment is group selection. Harvest up to 20% of unit in groups 1-2 acres in size. Plan on cutting cycle of 40-50 years with 20% removal each entry. Orient groups parallel to v-notches (up/down slope, with oblong shape). Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 20/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 20/ 95

INTEGRATED SILVICULTURAL DIAGNOSISPage 1 of 2UNIT # 7284 of the NW Baranof Timber SaleSTAND #161,162,163, VCU 300 MANAGEMENT AREA C40
205ACRES 7 Determined How: GIS By Whom: M.Hawks Date: 1993Aerial Photo: Year 1986 Flight Line 34 Photo #'s 176
Scale: 1:12000
1/4 Quad ID: Sitka B5SESITE CHARACTERISTICS:

Elevation: _____ to _____ ft. Aspect: W to NW Slope: 10 to 75 %
Landform: Smooth, frequently dissected, shallowly incised mountainslopes; broken mountainslopes and hillslopes
Plant Association: Western hemlock/blueberry and western hemlock-Alaska yellow cedar/blueberry
Site Index (Farr 50 yr.): 66
Soil: 3248D, 3639B, 3653C
Parent Material: Volcanic ash and organics derived from forest litter/mosses
Soil Depth in: <10 - >40 Soil Texture/Drainage: Poorly drained to moderately well drained mucky peat, silt loams and sandy loams
Potential of Mass Failure: Low

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-15-94
Stand History: Wind processes are the primary disturbance agent
Potential Windthrow Hazard: Moderate
Damaging Agents: Low to moderate decay. No fluting or mistletoe noted
Species Composition (trees 5+\" DBH): 80-85 %WH _____ %MH _____ %AC 15-20%SS
Stand Structure: Uneven aged stand with multiple canopy layers. Overstory with good vigor; understory releasing in gaps. Many age and size classes present.
Ave. Height: 125 ft. Basal Area: 360 sq.ft. Ave. Age: 250+ yr.
Ave. DBH (trees 5+\" DBH): 24 in. Ave. TPA (trees 5+\" DBH): _____
Ground Cover: 20% vaccinium cover, with devil's club in draws. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: _____ MBF Total Unit Vol: 181 MBF
NOTE: Volume estimates based on volume class averages obtained by stand examSUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Some oversteep slopes, existing slides or slumps and v-notches. Request soils scientist presence during layout to help determine location of groups. Protect v-notch in center of unit. Protect Class III channel to S of unit. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 300 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These lands have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect oversteep soils, slides, v-notches and streams. Retain moderate to high canopy retention. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves meets regeneration needs, but does not meet canopy retention and visual objectives. Group selection will meet objectives.

RECOMMENDED TREATMENT:

Recommended treatment is group selection. Harvest up to 20% of unit in groups 1-2 acres in size this entry. Plan for cutting cycle of 40-50 years, with 20% removal each cycle. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. Dougan

Date: 11/ 20/ 95

Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 20/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 7291 of the NW Baranof Timber Sale

STAND #43,51,52,60 VCU 300 MANAGEMENT AREA C40
235,396 302

ACRES 14 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 28 Photo #'s 100
Scale: 1:12000
1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 700 to 800 ft. Aspect: S to SW Slope: 20 to 70 %
Landform: broken mountainslopes and hillslopes

Plant Association: Sitka spruce/blueberry

Site Index (Farr 50 yr.): 89

Soil: 3653D; 3659C

Parent Material: volcanic ash

Soil Depth in: <20 - >40 Soil Texture/Drainage: deep, well drained to some-
what poorly drained mineral soils; very shallow, poorly drained mineral soils

Potential of Mass Failure: moderate to high

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 6-23-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: high

Damaging Agents: Low decay. No fluting or mistletoe noted. Pinicola evident in
unit.

Species Composition (trees 5+" DBH): 55 %WH %MH %AC 45 %SS

Stand Structure: Storied stand with 4 canopy layers. Dominants large spruce;
codoms. mostly hemlock, generally healthy; intermediates generally good form.

Ave. Height: 80-100ft. Basal Area: 360 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 28 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 10% Rusty menziesia; 10-30% vaccinium cover. Vaccinium height
1 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 353 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Combination of helicopter and cable yarding specified (approximately 5 acres can
be cable yarded). Some oversteepened and unstable soils in unit. Unit as
planned does not meet visual quality objective. Adjust boundary to reduce ap-
parent size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU's 300 and 302 have been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain moderate to high canopy retention and a variety of horizontal and vertical forest structure across the landscape. Protect oversteep and unstable soils. Minimize negative visual impacts. Retain advance regeneration.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include overstory removal and group selection. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Clearcut/reserves not considered due to not meeting canopy retention, visual and advance regeneration retention objectives. Group selection is feasible, but will be difficult to implement on cable yarded ground. Overstory removal will meet advance regeneration retention and canopy retention objectives, but will not meet visual objectives unless a smaller than normal amount of volume is removed with this entry.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees less than 24" DBH and protect nonmerchantable trees and advance regeneration. Cable yarding area will require lateral yarding to accomplish objectives. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. Dougan

Date: 11/ 20/ 95

Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 20/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 7292 of the NW Baranof Timber Sale

STAND #43,52,60

VCU 300

MANAGEMENT AREA C40

ACRES 12 Determined How: GIS By Whom: M. Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 28 Photo #'s 100

Scale: 1:12000

1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 700 to 800 ft. Aspect: NE to S Slope: 30 to 70 %
Landform: broken mountainslopes and hillslopes

Plant Association: Western hemlock - yellow cedar/blueberry

Site Index (Farr 50 yr.): 91

Soil: 3653D

Parent Material: volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: deep, well drained mineral soils

Potential of Mass Failure: high

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 6-23-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: high

Damaging Agents: Moderate decay. No fluting or mistletoe noted. Pinicola is present in unit.

Species Composition (trees 5+ DBH): 55-60 %WH %MH 25 %AC 15-20%SS

Stand Structure: Uneven-aged stand with 4 canopy layers. Dominants large spruce codoms. all species, generally good form; intermediates poor form/vigor.

Ave. Height: 80-100ft. Basal Area: 480 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+ DBH): 24 in. Ave. TPA (trees 5+ DBH):

Ground Cover: 10% Rusty menziesia; 20-50% vaccinium cover. Vaccinium height 1 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 303 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Some wet and oversteepened areas in unit. Within visual quality objectives.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU's 300 and 302 have been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to produce the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect oversteep and wet areas. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but long-term management economics are marginal due to decadence of stand. Clearcut/reserves will meet regeneration needs of stand (through planting).

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre either scattered through the unit (if safety permits) or around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or in small groups through the unit. Helicopter yard. Rely on natural regeneration, but plan on planting cedar at wide spacing to ensure cedar remains a component of regenerating stand.

Prepared By: William R. DouganDate: 11/ 20/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 20/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 7293 of the NW Baranof Timber Sale

STAND #43,49,52,60 VCU 300 MANAGEMENT AREA C40
235 302

ACRES 34 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 28 Photo #'s 100
Scale: 1:12000
1/4 Quad ID: Sitka B5SW

SITE CHARACTERISTICS:

Elevation: 500 to 700 ft. Aspect: SW to Slope: 20 to 70 %
Landform: broken mountainslopes and hillslopes

Plant Association: Western hemlock - yellow cedar/blueberry

Site Index (Farr 50 yr.): 91

Soil: 3653D

Parent Material: volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: deep, well drained mineral
soils

Potential of Mass Failure: high

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 6-23-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted. Pinicola
present in lower part of unit.

Species Composition (trees 5+ " DBH): 100 %WH %MH %AC %SS

Stand Structure: Storied stand. Overstory variable vigor; understory patchy
distribution with much of unit understocked.

Ave. Height: 80-110ft. Basal Area: 360 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+ " DBH): 20 in. Ave. TPA (trees 5+ " DBH):

Ground Cover: 10-80% Rusty menziesia; 0-50% vaccinium cover. Vaccinium height
1-2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 858 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Cliffs in vicinity of NW corner of unit. Ensure
boundary avoids this area. Unit as planned does not meet visual quality objec-
tive. Adjust boundary to reduce apparent size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU's 300 and 302 have been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to produce the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect cliff areas. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:


Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but decadence of stand makes long-term management economics marginal. Clearcut/reserves will meet regeneration needs but will not meet visual objective.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre either scattered through unit (if safety permits) or around unit edges. In addition, retain up to 6 trees per acre (live cull preferred). Trees may be left either scattered through the unit or in small groups through the unit. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 20/ 95

Certified By:


Certified Silviculturist

Date: 11/ 20/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 8011 of the NW Baranof Timber Sale

STAND # 33 VCU 299 MANAGEMENT AREA C40

ACRES 6 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 35 Photo #'s 225

Scale: 1:12000

1/4 Quad ID: Sitka B4SW

SITE CHARACTERISTICS:

Elevation: 100 to 200 ft. Aspect: S to SW Slope: 20 to 40 %
Landform: rolling hillcountry

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 71

Soil: 4259C

Parent Material: volcanic ash

Soil Depth in: <20 - >40 Soil Texture/Drainage: deep, somewhat poorly drained
mineral soils; very shallow, poorly drained mineral soils

Potential of Mass Failure: moderate

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 5-19-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: low

Damaging Agents: Moderate decay. No fluting noted. Light mistletoe infection.

Species Composition (trees 5+\" DBH): 100 %WH %MH %AC %SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Decadent stand, few
trees with good vigor. Scattered spruce through area.

Ave. Height: 80 ft. Basal Area: 200sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 18-20 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 10-15% Rusty menziesia; 50-75% vaccinium cover. Vaccinium height
2-3 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 179 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding specified. No soils concerns. Within visual quality objec-
tive. No archaeological sites identified during survey.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 299 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but decadence of stand and small size of unit make long-term management economics marginal. Clearcut/reserves will meet regeneration needs.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre, either scattered through unit (if safety permits) or around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or in small groups through the unit. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. Dougan

Date: 11/ 20/ 95

Certified By:

William R. Dougan
Certified Silviculturist

Date: 11/ 20/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 8021 of the NW Baranof Timber Sale

STAND # 33,187 VCU 299 MANAGEMENT AREA C40

ACRES 6 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 35 Photo #'s 225

Scale: 1:12000

1/4 Quad ID: Sitka B4SW

SITE CHARACTERISTICS:

Elevation: 100 to 150 ft. Aspect: S to Slope: 45 to 55 %
Landform: rolling hillcountry

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 71

Soil: 4259C

Parent Material: volcanic ash

Soil Depth in: <20 - >40 Soil Texture/Drainage: deep, somewhat poorly drained
mineral soils; very shallow, poorly drained mineral soils

Potential of Mass Failure: moderate

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 5-19-93

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: low

Damaging Agents: Low decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 85 %WH %MH %AC 15 %SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Dominants/codoms.
beginning to decline; intermediates not very vigorous.

Ave. Height: 95 ft. Basal Area: 280 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 18 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 30% Rusty menziesia; 30% vaccinium cover. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 179 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. No soils concerns. Within visual quality objec-
tive.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 299 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but small size of unit and decadence of stand make long-term management economics marginal. Clearcut/reserves will meet regeneration needs.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre, either scattered through the unit (if safety permits) or around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or in small groups through the unit. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 20/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 20/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 8022 of the NW Baranof Timber Sale

STAND #39,64 VCU 299 MANAGEMENT AREA C40

ACRES 11 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 35 Photo #'s 225

Scale: 1:12000

1/4 Quad ID: Sitka A4NW, B4SW

SITE CHARACTERISTICS:

Elevation: 100 to 500 ft. Aspect: N to E Slope: 15 to 80 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 76

Soil: 3625E, 3639B, 3644C

Parent Material: Colluvium, residuum, and volcanic ash

Soil Depth in: <10 - >40 Soil Texture/Drainage: Somewhat poorly drained to well drained silt loams and sandy loams

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-26-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. Moderate fluting noted. No mistletoe noted. No cedar decline noted.

Species Composition (trees 5+\" DBH): 85-90 %WH %MH <5 %AC 10-15%SS

Stand Structure: Uneven aged stand with multiple canopy layers. Spruce low in defect, many age classes present. Vigorous regeneration in gaps.

Ave. Height: 110 ft. Basal Area: 350 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 18 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 5% rusty, 30% vaccinium, with devil's club in drainages and skunk cabbage in low depressions. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 278 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Some blowdown present in unit. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 299 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Minimize blowdown potential in regenerating stand.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but blowdown reduction objective may not be met and small size of unit makes long-term management economics marginal. Clearcut/reserves will meet regeneration needs and minimize blowdown potential.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre either scattered through unit (if safety permits) or around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or in small groups through the unit. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 20/ 95

Certified By:

William R. Dougan
Certified Silviculturist

Date: 11/ 20/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 8032 of the NW Baranof Timber Sale

STAND #39,193

VCU 299

MANAGEMENT AREA C40

ACRES 4 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 35 Photo #'s 225

Scale: 1:12000

1/4 Quad ID: Sitka A4NW

SITE CHARACTERISTICS:

Elevation: 400 to 500 ft. Aspect: S to SE Slope: 40 to 50 %
Landform: broken mountainslopes and hillslopes

Plant Association: Western hemlock - yellow cedar/blueberry

Site Index (Farr 50 yr.): 64

Soil: 3649C

Parent Material: colluvium; residuum; decomposed organics

Soil Depth in: <20 Soil Texture/Drainage: shallow, well drained mineral soils overlying bedrock; shallow, well drained organic soils overlying bedrock

Potential of Mass Failure: low

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 5-19-93

Stand History: Wind processes are the primary disturbance agent.

Potential Windthrow Hazard: moderate

Damaging Agents: Low decay. No fluting or mistletoe noted. No cedar decline noted.

Species Composition (trees 5+\" DBH): 55-60 %WH %MH 25-30 %AC 10-15%SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Dominants decadent; codoms. variable vigor; intermediates best in gaps.

Ave. Height: 90 ft. Basal Area: 480 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 14-16in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 10-15% Rusty menziesia cover; 10-20% vaccinium cover. Vaccinium height <1-1 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 101 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit adjacent to native allotment application.

Identify boundaries prior to layout. No soils concerns. Protect v-notch in center of unit. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 299 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain cedar across the landscape where it occurs. Protect v-notches.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to small unit size making long-term management economics marginal. Clearcut/reserves is feasible for regeneration, but will likely not meet cedar regeneration objective without planting. Seed tree cut will best meet objectives.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain 10-12 cedar seed trees per acre, either scattered through the unit or left in small groups through the unit. Orient leave trees to minimize blowdown risk, where possible to do so. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. Dougan

Date: 11/ 21/ 95

Certified By: William R. Dougan
Certified Silviculturist

Date: 11/ 21/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 8061 of the NW Baranof Timber Sale

STAND # 48 VCU 299 MANAGEMENT AREA C40

ACRES 11 Determined How: GIS By Whom: M. Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 34 Photo #'s 170

Scale: 1:12000

1/4 Quad ID: Sitka A5NE

SITE CHARACTERISTICS:

Elevation: 200 to 600 ft. Aspect: N to NW Slope: 35 to 65 %

Landform: smooth, frequently dissected, shallow incised mountainslopes; broken mountainslopes and hillslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 92

Soil: 3253D; 3653C

Parent Material: volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: deep, well drained mineral soils

Potential of Mass Failure: high

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 5-20-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: moderate

Damaging Agents: Low decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 85 %WH %MH %AC 15 %SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Dominants declining; codoms. generally good form; intermediates best in gaps, poor under shade.

Ave. Height: 110-120ft Basal Area: 280 sq.ft. Ave. Age: 200+ yr.

Ave. DBH (trees 5+\" DBH): 18-20in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 5-15% Rusty menziesia and Devil's club; 20-40% vaccinium cover.

Vaccinium height <1-2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 328 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Some wet soils present in unit. Two v-notches that split unit need protection. Place E unit boundary at or above slope break of Class III channels. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 299 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to not meeting cedar regeneration/retention objective without planting. Seed tree cut is feasible for regeneration needs, but lack of quality cedar seed trees makes this difficult to implement. Clearcut/reserves will meet cedar regeneration/retention objective with planting.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre either scattered through unit (if safety permits) or around edges of unit. In addition retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or in small groups through the unit. Helicopter yard. Rely on natural regeneration, but plan on planting cedar at wide spacing in wetter areas of unit to ensure species diversity in landscape.

Prepared By: William R. DouganDate: 11/ 21/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 21/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 8062 of the NW Baranof Timber Sale

STAND #46,48,49,51 VCU 299 MANAGEMENT AREA C40

ACRES 11 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 34 Photo #'s 170

Scale: 1:12000

1/4 Quad ID: Sitka A5NE

SITE CHARACTERISTICS:

Elevation: 700 to 1000 ft. Aspect: N to NW Slope: 40 to 75 %
Landform: smooth, frequently dissected, shallow incised mountainslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 92

Soil: 3253D

Parent Material: volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: deep, well drained mineral soils

Potential of Mass Failure: high

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 5-20-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: moderate

Damaging Agents: Low decay. No fluting or mistletoe noted.

Species Composition (trees 5+" DBH): 90 %WH %MH %AC 10 %SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Dominants large, becoming sparse in upper unit; codoms. good form/vigor; intermediates poor vigor.

Ave. Height: 100-110ft Basal Area: 360 sq.ft. Ave. Age: 200+ yr.

Ave. DBH (trees 5+" DBH): 16-18in. Ave. TPA (trees 5+" DBH):

Ground Cover: 5-10% Rusty menziesia; 40-70% vaccinium cover. Vaccinium height 1-2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 278 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Two v-notches that split unit need protection.

Place E boundary at or above the slope break of Class III channels. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 299 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but decadence of stand makes long-term management economics marginal. Clearcut/reserves will meet regeneration needs.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre either scattered through unit (if safety permits) or around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or in small groups through unit. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 21/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 21/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 8063 of the NW Baranof Timber Sale

STAND #46,48,56 VCU 299 MANAGEMENT AREA C40

ACRES 14 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 34 Photo #'s 170

Scale: 1:12000

1/4 Quad ID: Sitka A5NE

SITE CHARACTERISTICS:

Elevation: 500 to 1000 ft. Aspect: NW to N Slope: 30 to 60 %
Landform: smooth, frequently dissected, shallow incised mountainslopes

Plant Association: western hemlock/blueberry

Site Index (Farr 50 yr.): 92

Soil: 3253D

Parent Material: volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: deep, well drained mineral soils

Potential of Mass Failure: high

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 5-20-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: moderate

Damaging Agents: Low decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 75 WH %MH %AC 25 %SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Dominants fairly good form; codoms. good form/vigor; intermediates generally poor vigor.

Ave. Height: 100-110ft Basal Area: 200 sq.ft. Ave. Age: 200+ yr.

Ave. DBH (trees 5+\" DBH): 20 in. Ave. TPA (trees 5+\" DBH):

Ground Cover: <5-15% Rusty menziesia; 30-60% vaccinium cover. Vaccinium height 1-2 ft.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 362 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yard. Directionally fall trees away from v-notches. Some oversteep areas in unit. Protect two v-notches that split the unit. Place NE and SW unit boundaries at or above slope break of Class III channels. Unit as planned does not meet visual quality objective. Adjust unit boundary to reduce apparent size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 299 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches. Minimize negative visual impacts.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but decadence of stand makes long-term management economics marginal. Clearcut/reserves will meet regeneration needs but will not meet visual objective.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre either scattered through unit (if safety permits) or around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or left in small groups across the unit. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 21/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 21/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 8064 of the NW Baranof Timber Sale

STAND #46

VCU 299

MANAGEMENT AREA C40

ACRES 16 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 34 Photo #'s 170

Scale: 1:12000

1/4 Quad ID: Sitka A5NE

SITE CHARACTERISTICS:

Elevation: 300 to 1100 ft. Aspect: N to NW Slope: 30 to 45 %

Landform: mountainslopes with snow avalanching and mass wasting; smooth,

frequently dissected, shallow incised mountainslopes; broken mountain/hill slope

Plant Association: Western hemlock - yellow cedar/blueberry

Site Index (Farr 50 yr.): 76

Soil: 3002E; 3253D; 3639B; 3653C; 3659D

Parent Material: colluvium; residuum; volcanic ash

Soil Depth in: <20 - >40 Soil Texture/Drainage: shallow to deep, well drained

mineral soils; very shallow, poorly drained mineral soils; deep, somewhat poorly
drained mineral soils

Potential of Mass Failure: moderate to extreme

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 5-20-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: moderate

Damaging Agents: Low to moderate decay. No fluting or mistletoe noted. No
cedar decline noted.

Species Composition (trees 5+\" DBH): 45 %WH %MH 55 %AC %SS

Stand Structure: Uneven-aged stand with 3 canopy layers. Dominants decadent;
codoms, variable form/vigor; intermediates generally poor vigor.

Ave. Height: 100 ft. Basal Area: 280 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 14-18in. Ave. TPA (trees 5+\" DBH):

Ground Cover: <5-15% Rusty menziesia and Devil's club; 40-80% vaccinium cover.

Vaccinium height 1-2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 404 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yard. Directionally fall trees away from v-notches. Some oversteep
soils in unit. V-notches split the center of the unit and need protection.

Fish biologist needs to field review W end of unit to identify Class I and II
fish habitat. Unit as planned does not meet visual quality objective. Adjust
boundary to reduce apparent size and screen harvested ground.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 299 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches and streams. Minimize negative visual impacts. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to not meeting cedar retention objective. Clearcut/reserves is feasible, but will not meet cedar regeneration retention objective (without planting) and visual objective. Seed tree cut will meet cedar regeneration retention objective, but will only partially meet visual objective.

RECOMMENDED TREATMENT:

Recommended treatment is seed tree cut. Retain 10-12 cedar seed trees per acre either scattered through the unit or left in small groups through the unit. Orient leave trees to minimize blowdown risk, where possible to do so. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 21/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 21/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 8065 of the NW Baranof Timber Sale

STAND #45,46,58 VCU 299 MANAGEMENT AREA C40

ACRES 12 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1986 Flight Line 34 Photo #'s 170

Scale: 1:12000

1/4 Quad ID: Sitka A5NE

SITE CHARACTERISTICS:

Elevation: 700 to 1200 ft. Aspect: NW to Slope: 50 to 90+ %
Landform: broken mountainslopes and hillslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 66

Soil: 3648E

Parent Material: colluvium; residuum

Soil Depth in: >40 Soil Texture/Drainage: deep, well drained mineral soils

Potential of Mass Failure: extreme

STAND CHARACTERISTICS:

Stand Examination: Type walk-through exam Date 5-18-93

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: low

Damaging Agents: Low to moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 65 %WH %MH %AC 35 %SS

Stand Structure: Storied stand with 3 canopy layers. Dominants large, losing vigor; codoms. generally poor form, variable vigor; intermeds. poor form/vigor.

Ave. Height: 120-130ft Basal Area: 240 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 18-20in. Ave. TPA (trees 5+\" DBH):

Ground Cover: <5-10% devil's club; <5-10% vaccinium cover. Vaccinium height 1-2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 303 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit is adjacent to native allotment. Boundary needs to be identified prior to layout. Place E boundary above slope break of large v-notch. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 299 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 4. Opportunities will be provided for intensive resource development where emphasis is primarily on commodity or market resources, while providing for protection of physical and biological productivity.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but decadence of stand makes long-term management economics marginal. Clearcut/reserves will meet regeneration needs.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre either scattered through unit (if safety permits) or around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or in small groups through unit. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. Dougan

Date: 11/ 21/ 95

Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 21/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 9011 of the NW Baranof Timber Sale

STAND #46,47 VCU 301 MANAGEMENT AREA C40

ACRES 30 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1987 Flight Line 35 Photo #'s 231

Scale: 1:12000

1/4 Quad ID: Sitka A5NE

SITE CHARACTERISTICS:

Elevation: 1000 to 1150 ft. Aspect: W to NW Slope: 50 to 65 %

Landform: Smooth, infrequently dissected mountainslopes; mountainslope ravines; frequently dissected footslopes and alluvial fans

Plant Association: Western hemlock-Alaska yellow cedar/blueberry

Site Index (Farr 50 yr.): 94

Soil: 3517D, 3779E, 5243B, 5256B

Parent Material: Volcanic ash, colluvium, residuum, ablation till, and organics.

Soil Depth in: <10 - >60 Soil Texture/Drainage: Poorly drained to well drained muck, silt loams and sandy loams.

Potential of Mass Failure: High

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-30-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: High

Damaging Agents: Moderate decay. No fluting or mistletoe noted. High incidence of windthrow in unit.

Species Composition (trees 5+" DBH): 80 %WH %MH 20 %AC %SS

Stand Structure: Storied stand with 2-3 canopy layers. Dominants defective; codoms. of variable form/vigor; intermediates well stocked, best in gaps.

Ave. Height: 80-90 ft. Basal Area: 200sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+" DBH): 14-18in. Ave. TPA (trees 5+" DBH):

Ground Cover: <5-10% rusty, 20-60% vaccinium. Vaccinium height 1-2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 757 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Partial suspension required for soils protection.

Minimum buffer of 200 ft. needed on Lisa Creek. Unit contains some wet areas.

Two v-notches that split unit need protection. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 301 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to produce the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to not meeting cedar retention objective (without planting) and difficult implementation of method with cable system. Seed tree cut is feasible, but lack of quality cedar seed trees makes implementation difficult. Clearcut/reserves will meet cedar retention objective (with planting).

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or (more likely) in small groups through unit between yarding corridors. Cable yard. Rely on natural regeneration, but plan on planting cedar at wide spacing to ensure cedar remains a component in regenerating stand.

Prepared By: William R. DouganDate: 11/ 21/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 21/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 9012 of the NW Baranof Timber Sale

STAND #46,47 VCU 301 MANAGEMENT AREA C40

ACRES 17 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1987 Flight Line 35 Photo #'s 231

Scale: 1:12000

1/4 Quad ID: Sitka A5NE

SITE CHARACTERISTICS:

Elevation: 900 to 1400 ft. Aspect: SW to N Slope: 35 to 55 %

Landform: Smooth, infrequently dissected mountainslopes; broken mountainslopes and hillslopes; frequently dissected footslopes

Plant Association: Western hemlock/blueberry and western hemlock-Alaska yellow cedar/blueberry

Site Index (Farr 50 yr.): 96

Soil: 3517D, 3635C, 5256B

Parent Material: Volcanic ash, colluvium and ablation till

Soil Depth in: >40 Soil Texture/Drainage: Somewhat poorly drained to well drained mucky silt loams, silt loams and sandy loams

Potential of Mass Failure: Moderate to high

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-30-94

Stand History: Wind processes are the primary disturbance agent

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 55-60%WH %MH 5-10 %AC 35-40%SS

Stand Structure: Storied stand with 2-4 canopy layers. Small, even-aged area in center of unit heavy to spruce; generally good form; intermeds. mostly in gaps.

Ave. Height: 90-100ft. Basal Area: 280 sq.ft. Ave. Age: 200+ yr.

Ave. DBH (trees 5+\" DBH): 26-28in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 15-50% vaccinium. Vaccinium height <1 ft. Heavily browsed.

Total Net Sawlog Vol/Acre: MBF

Total Unit Vol: 429 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Cable yarding specified. Recommend directional falling away from v-notches.

Full suspension necessary to yard over v-notches, with partial suspension elsewhere. Protect four large v-notches in unit. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 301 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to produce the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain cedar across the landscape where it occurs. Protect v-notches.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to not meeting cedar retention objective (without planting) and difficulty in implementing with cable system. Seed tree cut is feasible, but lack of quality cedar seed trees makes implementation difficult. Clearcut/reserves will meet cedar retention objective (with planting).

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or (more likely) in small groups through unit between yarding corridors. Cable yard. Rely on natural regeneration, but plan on planting cedar at wide spacing to ensure it remains a component in regenerating stand.

Prepared By: William R. DouganDate: 11/ 21/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 21/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 9021 of the NW Baranof Timber Sale

STAND # 5,46,47 VCU 301 MANAGEMENT AREA C440

ACRES 29 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1987 Flight Line 35 Photo #'s 231

Scale: 1:12000

1/4 Quad ID: A5NE

SITE CHARACTERISTICS:

Elevation: 500 to 1000 ft. Aspect: S to SW Slope: 30 to 70 %

Landform: Smooth, frequently dissected, shallowly incised mountainslopes; smooth infrequently dissected mountainslopes; broken mountainslopes and footslopes

Plant Association: Western hemlock/blueberry and western hemlock-Alaska yellow cedar/blueberry

Site Index (Farr 50 yr.): 94

Soil: 3253D, 3517D, 3635C

Parent Material: Volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: Somewhat poorly drained to moderately well drained silt loams and sandy loams

Potential of Mass Failure: High

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-27-94

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: High decay. Moderate fluting and mistletoe infection noted. Some cedar decline noted.

Species Composition (trees 5+" DBH): 70 %WH %MH 15-20 %AC 10-15%SS

Stand Structure: Uneven aged stand with multiple canopy layers. High defect in dominants/codoms.; intermediates not well distributed; windthrow common.

Ave. Height: 100 ft. Basal Area: 340 sq.ft. Ave. Age: 200+ yr.

Ave. DBH (trees 5+" DBH): 18 in. Ave. TPA (trees 5+" DBH):

Ground Cover: 35% vaccinium. Vaccinium height 1-2 ft. Some alder present in disturbed areas.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 759 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Combination of cable and helicopter yarding specified. Cable yarding feasible on approximately 17 of 29 acres. Unit contains v-notches, old slumps and blow-down. Recommend directional falling away from v-notches and full suspension over notches, with partial suspension elsewhere. V-notch that splits unit needs protection. Maintain S and SW boundaries well above extreme soil mass movement hazard area adjacent to Class II channel. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 301 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain cedar across the landscape where it occurs. Reduce mistletoe infection to improve forest health. Protect v-notches and streams.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to not meeting cedar retention (without planting) and mistletoe reduction objectives, and difficulty in implementing with cable system. Seed tree cut is feasible, but lack of quality seed trees makes implementation difficult. Clearcut/reserves will meet cedar retention objective (with planting) and mistletoe reduction objective.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre either scattered through unit (if safety permits) or around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or (more likely for cable area) in small groups through unit between yarding corridors. Cable and helicopter yard. Rely on natural regeneration but plan on planting cedar at wide spacing to ensure cedar remains a component in regenerating stand.

Prepared By: William R. DouganDate: 11/ 21/ 95Certified By: 
Certified SilviculturistDate: 11/ 21/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 9022 of the NW Baranof Timber Sale

STAND #5,46,52 VCU 301 MANAGEMENT AREA C40

ACRES 12 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1987 Flight Line 35 Photo #'s 231

Scale: 1:12000

1/4 Quad ID: Sitka A4NW

SITE CHARACTERISTICS:

Elevation: 800 to 1100 ft. Aspect: S to SW Slope: 45 to 80 %
Landform: Smooth, frequently dissected, shallowly incised mountainslopes

Plant Association: Western hemlock-Alaska yellow cedar/blueberry

Site Index (Farr 50 yr.): 92

Soil: 3253D

Parent Material: Volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: Somewhat poorly drained to moderately well drained silt loams and sandy loams

Potential of Mass Failure: High

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-27-94

Stand History: Wind and slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: High decay. No fluting or mistletoe noted. Possible cedar decline noted (many trees with dead tops).

Species Composition (trees 5+ DBH): 10-15 %WH %MH 80 %AC 5-10 %SS

Stand Structure: Mosaic of uneven and even aged stands. Even aged stand is pole dominated, uneven aged area with many gaps created by blowdown.

Ave. Height: 100 ft. Basal Area: 300 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+ DBH): 12 in. Ave. TPA (trees 5+ DBH):

Ground Cover: 5% rusty, 30% vaccinium. Vaccinium height 2 ft. Some alder present in disturbed areas.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 312 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Unit contains some v-notches. Directionally fall away from v-notches. Protect two v-notches in center of unit. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 301 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to produce the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of quality seed trees and heavy cedar decline in area. Group selection is feasible, but decadence of stand makes long-term management economics marginal. Clearcut/reserves will meet regeneration needs.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre either scattered through unit (if safety permits) or around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or in small groups through the unit. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 21/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 21/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

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UNIT # 9023 of the NW Baranof Timber Sale

STAND # 5,59 VCU 301 MANAGEMENT AREA C40

ACRES 17 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1987 Flight Line 35 Photo #'s 231

Scale: 1:12000

1/4 Quad ID: Sitka A4NW

SITE CHARACTERISTICS:

Elevation: 200 to 600 ft. Aspect: SW to Slope: 30 to 70 %

Landform: Mountainslopes dominated by cliffs and rock outcrops; smooth, frequently dissected, shallowly incised mountainslopes; broken mountainslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 86

Soil: 3067E, 3253D, 3653C

Parent Material: Colluvium, residuum, volcanic ash and organics

Soil Depth in: <10 - >40 Soil Texture/Drainage: Somewhat poorly drained to well drained muck, silt loams and sandy loams

Potential of Mass Failure: High

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-27-94

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 90 %WH %MH %AC 10 %SS

Stand Structure: Uneven aged stand with 3 canopy layers. High defect in dominants; codoms. better form; intermediates confined mostly to gaps.

Ave. Height: 100-115ft. Basal Area: 360 sq.ft. Ave. Age: 200+ yr.

Ave. DBH (trees 5+\" DBH): 16-18in. Ave. TPA (trees 5+\" DBH):

Ground Cover: <5-10% rusty and devil's club, 30-40% vaccinium. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 507 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Minimum buffer of 200 ft. on Lisa Creek. Small slumps identified in unit. Protect two channels on E end and two channels on W end of unit. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 301 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to produce the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect v-notches and streams.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but decadence of stand makes long-term management economics marginal. Clearcut/reserves will meet regeneration needs.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre either scattered through the unit (if safety permits) or around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or in small groups through unit. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 21/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 21/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 9031 of the NW Baranof Timber Sale

STAND #57,61,62 VCU 301 MANAGEMENT AREA C40

ACRES 21 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1987 Flight Line 35 Photo #'s 231

Scale: 1:12000

1/4 Quad ID: Sitka A4NW

SITE CHARACTERISTICS:

Elevation: 400 to 800 ft. Aspect: SW to Slope: 40 to 60 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Sitka spruce/blueberry and western hemlock/blueberry

Site Index (Farr 50 yr.): 90

Soil: 3653C

Parent Material: Volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: Somewhat poorly drained to moderately well drained silt loams and sandy loams

Potential of Mass Failure: High

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 9-10-94

Stand History: Wind and slide processes are the primary disturbance agents

Potential Windthrow Hazard: Low

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 40-45 %WH %MH %AC 55-60%SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants/codoms. of average form/vigor; intermediates patchy distribution, best in gaps.

Ave. Height: 90-110ft. Basal Area: 360 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 16-20in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 5-10% devil's club, 10-20% vaccinium. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 622 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Maintain minimum 200 ft. buffer on Lisa Creek.

Some small wet areas and old slumps in unit. Protect mapped and unmapped channels on E and W ends of unit. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 301 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to produce the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain advance regeneration. Protect v-notches and streams.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection not considered due to not meeting advance regeneration objective. Clearcut is feasible for regenerating stand, but will not meet advance regeneration objective. Overstory removal will best meet objectives.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees less than 18" DBH and protect nonmerchantable trees and advance regeneration. Helicopter yard. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. Dougan

Date: 11/ 21/ 95

Certified By: William R. Dougan
Certified Silviculturist

Date: 11/ 21/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 9041 of the NW Baranof Timber Sale

STAND #57,62,64, VCU 301 MANAGEMENT AREA C40
158

ACRES 35 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1989 Flight Line 36C Photo #'s 86

Scale: 1:12000

1/4 Quad ID: Sitka A4NW

SITE CHARACTERISTICS:

Elevation: 400 to 1200 ft. Aspect: N to NE Slope: 35 to 45 %
Landform: Broken mountainslopes and hillslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 92

Soil: 3653C

Parent Material: Volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: Somewhat poorly drained to moderately well drained silt loams and sandy loams

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 9-10-94

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Low

Damaging Agents: Moderate decay. No fluting noted. Low incidence of mistletoe infection noted.

Species Composition (trees 5+ " DBH): 60-65 %WH %MH %AC 35-40%SS

Stand Structure: Even aged stand with 2 canopy layers. No large dominants; codoms. not well stocked, variable form/vigor; intermediates understocked.

Ave. Height: 70-80 ft. Basal Area: 320 sq.ft. Ave. Age: 200+ yr.

Ave. DBH (trees 5+ " DBH): 14-16in. Ave. TPA (trees 5+ " DBH):

Ground Cover: 0-5% rusty, 5-15% vaccinium. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 984 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Maintain minimum 200 ft. buffer along Lisa Creek. Directionally fall away from v-notches. Some oversteep and unstable areas in unit. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 301 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to produce the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect steep/unstable areas and v-notches. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of adequate numbers of cedar in stand. Group selection is feasible, but will not meet cedar retention objective (unless planted). Clearcut/reserves will meet cedar retention objective with planting.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre either scattered through unit (if safety permits) or around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees will be left either scattered through unit or in small groups through the unit. Helicopter yard. Rely on natural regeneration, but consider planting cedar to ensure it remains a component in regenerating stand (even though it is a very minor component in present stand).

Prepared By: William R. DouganDate: 11/ 21/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 21/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 9051 of the NW Baranof Timber Sale

STAND #5,54,55, VCU 301 MANAGEMENT AREA C40
56,57,152

ACRES 41 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1987 Flight Line 35 Photo #'s 232

Scale: 1:12000

1/4 Quad ID: Sitka A4NW, A5NE

SITE CHARACTERISTICS:

Elevation: 750 to 1100 ft. Aspect: N to NE Slope: 40 to 60 %

Landform: Mountainslopes dominated by cliffs and rock outcrops; smooth, frequently dissected, shallowly incised mountainslopes; broken mountainslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 88

Soil: 3067E, 3253D, 3653C

Parent Material: Cooluvium, residuum, organics, and volcanic ash

Soil Depth in: <10 - >40 Soil Texture/Drainage: Somewhat poorly drained to moderately well drained muck, silt loams and sandy loams

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-31-94

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Low to moderate

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 50 %WH %MH %AC 50 %SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants/some codoms. declining in vigor; intermediates beginning to release in gaps.

Ave. Height: 100-120ft Basal Area: 320 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 24-28in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 5-15% devil's club, salmonberry and rusty; 10-50% vaccinium.

Vaccinium height 1-2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 1154 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Minimum buffer of 200 ft. on Lisa Creek. Directionally fall away from notches. Some oversteep slopes, shallow soils and v-notches in unit. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 301 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain advance regeneration. Protect v-notches and streams.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and overstory removal. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection not considered due to not meeting advance regeneration retention objective and decadence of stand making long-term management economics marginal. Clearcut/reserves is feasible, but will not meet advance regeneration retention objective. Overstory removal will best meet objectives.

RECOMMENDED TREATMENT:

Recommended treatment is overstory removal. Retain trees less than 18" DBH and protect nonmerchantable trees and advance regeneration. Helicopter yard. Rely on natural regeneration for filling in gaps created by harvest.

Prepared By: William R. DouganDate: 11/ 21/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 21/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 9052 of the NW Baranof Timber Sale

STAND # 57 VCU 301 MANAGEMENT AREA C40

ACRES 8 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1987 Flight Line 35 Photo #'s 232

Scale: 1:12000

1/4 Quad ID: Sitka A4NW

SITE CHARACTERISTICS:

Elevation: 400 to 500 ft. Aspect: N to NE Slope: 40 to 50 %

Landform: Smooth, frequently dissected, shallowly incised mountainslopes; broken mountainslopes and hillslopes

Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 86

Soil: 3253D, 3653C

Parent Material: Volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: Somewhat poorly drained to moderately well drained silt loams and sandy loams

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 9-10-94

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Low

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 65-70 %WH %MH %AC 30-35%SS

Stand Structure: Uneven aged stand with 3 canopy layers. Few large dominants; codoms. mostly hemlock, variable form; intermediates poor form/vigor.

Ave. Height: 70-80 ft. Basal Area: 240 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 14-16in. Ave. TPA (trees 5+\" DBH):

Ground Cover: <5% rusty, 5-20% vaccinium. Vaccinium height 2-3 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 239 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Minimum buffer of 200 ft. on Lisa Creek. Directionally fall trees away from v-notches. Some areas of steep slopes, shallow slopes and v-notches in unit. Protect v-notches in unit. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 301 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect soils, v-notches and streams.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and group selection. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Seed tree cut not considered due to lack of cedar component in stand. Group selection is feasible, but decadence of stand makes long-term management economics marginal. Clearcut/reserves will meet regeneration needs.

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre either scattered through unit (if safety permits) or around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or in small groups through unit. Helicopter yard. Rely on natural regeneration.

Prepared By: William R. DouganDate: 11/ 21/ 95Certified By: William R. Dougan

Certified Silviculturist

Date: 11/ 21/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 9061 of the NW Baranof Timber Sale

STAND #46,47 VCU 301 MANAGEMENT AREA C40

ACRES 8 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1987 Flight Line 35 Photo #'s 231

Scale: 1:12000

1/4 Quad ID: Sitka A5NE

SITE CHARACTERISTICS:

Elevation: 1000 to 1100 ft. Aspect: N to Slope: 40 to 50 %

Landform: Smooth, frequently dissected, shallowly incised mountainslopes; broken mountainslopes and hillslopes

Plant Association: Western hemlock-Alaska yellow cedar/blueberry

Site Index (Farr 50 yr.): 90

Soil: 3253D, 3653C

Parent Material: Volcanic ash

Soil Depth in: >40 Soil Texture/Drainage: Somewhat poorly drained to moderately well drained silt loams and sandy loams

Potential of Mass Failure: Low

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-31-94

Stand History: Wind and small slide processes are the primary disturbance agents

Potential Windthrow Hazard: Low

Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+\" DBH): 25 %WH %MH 60-65 %AC 10-15%SS

Stand Structure: Uneven aged stand with 3 canopy layers. Dominants beginning to decline; codoms. with good form/vigor; intermediates with decent form/vigor.

Ave. Height: 85-95 ft. Basal Area: 320 sq.ft. Ave. Age: 250+ yr.

Ave. DBH (trees 5+\" DBH): 18-22in. Ave. TPA (trees 5+\" DBH):

Ground Cover: 10% rusty, 40-70% vaccinium. Vaccinium height 1-2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 202 MBF

NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Minimum buffer of 200 ft. on Lisa Creek. Unit is dissected and contains old slumps and rocky soils. Directionally fall away from v-notches. Put E boundary well away from extreme hazard soils along the channel. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 301 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Retain cedar across the landscape where it occurs. Protect soils, v-notches and streams.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to not meeting cedar retention objective (without planting) and decadence of stand making long-term management economics marginal. Seed tree cut is feasible, but lack of quality cedar seed trees makes implementation difficult. Clearcut/reserves will meet cedar retention objective (with planting).

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre either scattered through unit (if safety permits) or around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered or in small groups through the unit. Helicopter yard. Rely on natural regeneration, but plan on planting cedar at wide spacing to ensure cedar remains a component in regenerating stand.

Prepared By: William R. DouganDate: 11/ 21/ 95Certified By: William R. Dougan
Certified SilviculturistDate: 11/ 21/ 95

INTEGRATED SILVICULTURAL DIAGNOSIS

Page 1 of 2

UNIT # 9062 of the NW Baranof Timber Sale

STAND # 5,46,47, VCU 301 MANAGEMENT AREA C40
152

ACRES 14 Determined How: GIS By Whom: M.Hawks Date: 1993

Aerial Photo: Year 1987 Flight Line 35 Photo #'s 231
Scale: 1:12000
1/4 Quad ID: Sitka A5NE

SITE CHARACTERISTICS:

Elevation: 1000 to 1400 ft. Aspect: N to Slope: 35 to 65 %
Landform: Smooth, frequently dissected, shallowly incised mountainslopes; broken mountainslopes and hillslopes
Plant Association: Western hemlock/blueberry

Site Index (Farr 50 yr.): 84
Soil: 3253D, 3648E, 3653C
Parent Material: Volcanic ash and organics derived from forest litter/mosses
Soil Depth in: <10 - >40 Soil Texture/Drainage: Somewhat poorly drained to well drained muck, silt loams and sandy loams

Potential of Mass Failure: Moderate

STAND CHARACTERISTICS:

Stand Examination: Type Walk-through exam Date 7-31-94
Stand History: Wind and slide processes are the primary disturbance agents
Potential Windthrow Hazard: Moderate
Damaging Agents: Moderate decay. No fluting or mistletoe noted.

Species Composition (trees 5+" DBH): 80-85 %WH %MH %AC 15-20%SS
Stand Structure: Uneven aged stand with 3 canopy layers. Dominants declining; codoms. variable form/vigor; intermediates patchy distribution, best in gaps.
Ave. Height: 100-110ft Basal Area: 240 sq.ft. Ave. Age: 250+ yr.
Ave. DBH (trees 5+" DBH): 24-30in. Ave. TPA (trees 5+" DBH):
Ground Cover: 5% rusty, 10-40% vaccinium. Vaccinium height 2 ft.

Total Net Sawlog Vol/Acre: MBF Total Unit Vol: 353 MBF
NOTE: Volume estimates based on volume class averages obtained by stand exam

SUMMARY OF OTHER RESOURCES AND VALUES:

Helicopter yarding required. Minimum buffer of 200 ft. on Lisa Creek. Unit is dissected and contains old slumps. Directionally fall away from v-notches. Put E boundary well back from extreme hazard soils along Lisa Creek. Within visual quality objective.

LAND MANAGEMENT OBJECTIVES:

Forest Plan: VCU 301 has been allocated through the Tongass Land Management Plan to Land Use Designation (LUD) 3. These lands will be managed for a variety of uses, with emphasis on managing for uses and activities in a compatible and complementary manner to provide the greatest combination of benefits. These areas have either high use or high amenity and commodity values.

Landscape and Unit Objectives: Maintain a variety of horizontal and vertical forest structure across the landscape. Protect soils, v-notches and streams. Retain cedar across the landscape where it occurs.

TREATMENT ALTERNATIVES TO MEET LANDSCAPE AND UNIT OBJECTIVES:

Potential treatments include clearcut/reserves and seed tree cut. Overstory removal not considered due to lack of manageable understory. Shelterwood not considered due to lack of need for understory protection/regeneration of shade tolerant species. Group selection not considered due to not meeting cedar retention objective and decadence of stand making long-term management economics marginal. Seed tree cut is feasible, but lack of quality cedar seed trees makes implementation difficult. Clearcut/reserves will meet cedar retention objective (through planting).

RECOMMENDED TREATMENT:

Recommended treatment is clearcut/reserves. Retain 2 snags per acre either scattered through unit (if safety permits) or around unit edges. In addition, retain up to 6 trees per acre (live cull preferred) for structure and future snag sources. Trees may be left either scattered through unit or in small groups through unit. Helicopter yard. Rely on natural regeneration, but plan on planting cedar at wide spacing to ensure it remains a component in regenerating stand.

Prepared By: William R. Dougan

Date: 11/ 21/ 95

Certified By:


Certified Silviculturist

Date: 11/ 21/ 95



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